

**LOCTITE®**



# **LOCTITE 3D 3843™**

HDT60 High Toughness

Photoplastic

Matte Black, White, Clear, Gray

**LOCTITE®**

Henkel Corporation

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## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC



### LOCTITE 3D 3843™

Semi-flexible resin with moderate temperature resistance HDT60, high impact strength, and versatility for a broad range of applications.

LOCTITE 3D 3843 is a high-strength engineering plastic with good impact resistance and excellent surface finish. It is ideal for a wide variety of tooling applications on the production floor.

LOCTITE 3D 3843 displays high green strength and HDT enabling it to print accurately and function at room temperature. It is compatible with a broad range of DLP machines.



#### Benefits:

- Moderate heat resistance, HDT 60° C
- Tough with outstanding surface finish
- Superior strength and impact resistant



#### Ideal for:

- Manufacturing aids
- Jigs and fixtures
- Housings and covers
- Insoles



#### Markets:



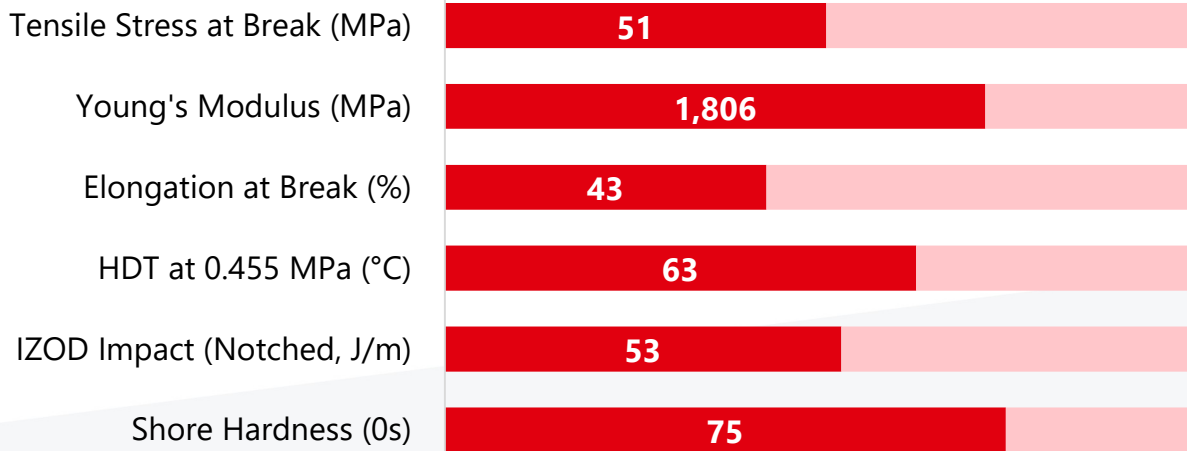
Industry



Automotive



Consumer Goods



*\*Values shown are linked to LOCTITE 3843 Matte Black as reference, please refer to the specific mechanical properties for each of the colors shown in this document*



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
MATTE BLACK



## MECHANICAL PROPERTIES

| Mechanical Properties    | Measure           | Method     | Green           | Post Processed |
|--------------------------|-------------------|------------|-----------------|----------------|
| Tensile Stress at Yield  | MPa               | ASTM D638  | 43.8 ± 0.7 [5]  | 52.9 ± 1.5 [1] |
| Tensile Stress at Break  | MPa               | ASTM D638  | 37.8 ± 1 [5]    | 50.9 ± 2.4 [1] |
| Young's Modulus          | MPa               | ASTM D638  | 1,572 ± 31 [5]  | 1,806 ± 47 [1] |
| Elongation at Break      | %                 | ASTM D638  | 51.5 ± 10.3 [5] | 43.4 ± 9.7 [1] |
| Flexural Stress at Yield | MPa               | ASTM D790  | 49.4 ± 0.8 [6]  | 73.8 ± 1.0 [2] |
| Flexural Modulus         | MPa               | ASTM D790  | 1,113 ± 23 [6]  | 1,783 ± 45 [2] |
| Flexural Strain at Break | %                 | ASTM D790  | > 10 [6]        | > 10 [2]       |
| <b>Other Properties</b>  |                   |            |                 |                |
| HDT at 0.455 MPa         | °C                | ASTM D648  | -               | 63°C [3]       |
| IZOD Impact (Notched)    | J/m               | ASTM D256  | -               | 52.6 ± 3.8 [4] |
| Water Absorption (24hr)  | %                 | ASTM D570  | -               | 1.94 [7]       |
| Water Absorption (72hr)  | %                 | ASTM D570  | -               | 3.21 [7]       |
| Shore Hardness (0s, 3s)  | D                 | ASTM D2240 | 68, 63 [11]     | 74, 67 [9]     |
| Solid Density            | g/cm <sup>3</sup> | ASTM D1475 | 1.18 [10]       | 1.18 [10]      |

| Liquid Properties        | Measure           | Method     | Value       |
|--------------------------|-------------------|------------|-------------|
| Viscosity at 25°C (77°F) | cP                | ASTM D7867 | 759 ± 1 [8] |
| Liquid Density           | g/cm <sup>3</sup> | ASTM D1475 | 1.07 [10]   |

\*All specimen are printed unless otherwise noted. All specimen were conditioned in ambient lab conditions at 19-23°C / 40-60% RH for at least 24 hours.\* ASTM Methods: D638 Type IV, 5 mm/min, D790-B, 2 mm/min, D648, D256 Notched IZOD (Machine Notched), 6 mm x 12 mm, D570 0.125" x 2" Disc 24hr@ 25°C, D2240, Type "D" (0, 3 seconds), D7867, D1475

**Internal Data Sources:**

[1]FOR16424, [2]FOR16426, FOR17678, [3]FOR19725, [4]FOR16427, [5]FOR16425, [6]FOR19115, [7]FOR19118, [8]FOR16420, [9]FOR19117, [10]FOR19114, [11]FOR19119



**3843™**

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
MATTE BLACK

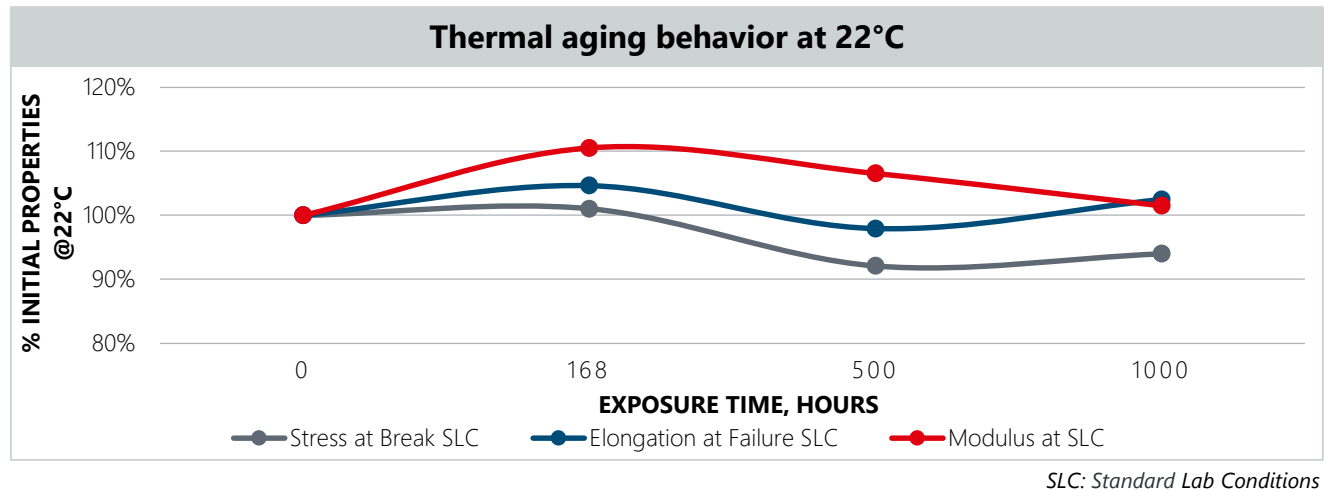


## AGING AND ENVIRONMENTAL EFFECTS (I/III)

LOCTITE 3D 3843 has been tested in QUV exterior weathering conditions (ASTM G-154) for 800 hours with less than a 15% change in Tensile and IZOD Impact properties.

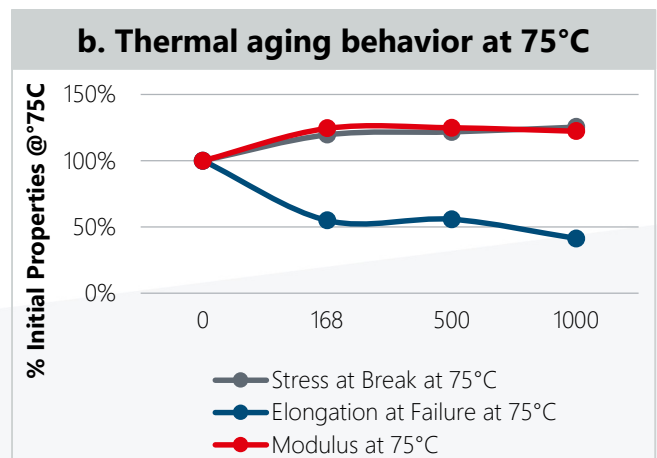
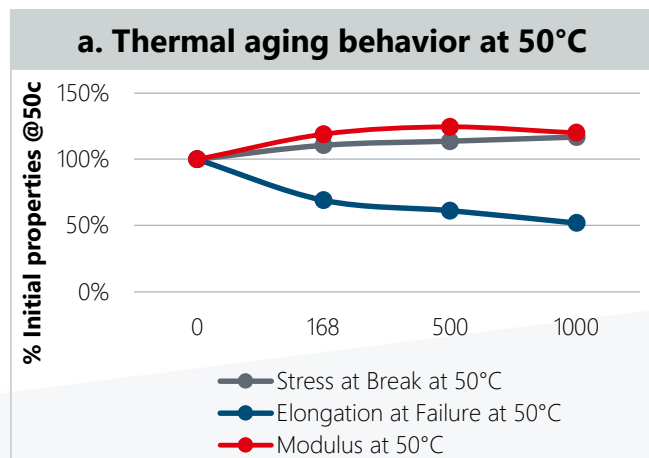
### CONTROL AGING AT 22°C (Tested at 22°C)

Samples were kept at standard laboratory conditions and were not exposed to elevated temperatures.



### HEAT AGING (Tested at 22°C)

Samples were aged at (a) 50°C and (b) 75°C.



*\*All values tested at room temperature*

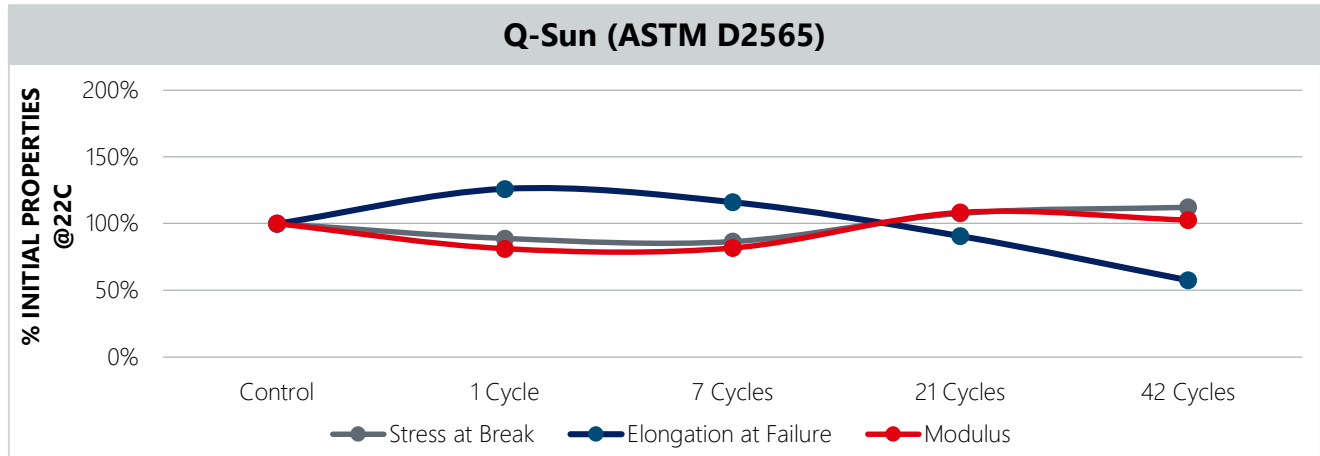


## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
MATTE BLACK



### Q-Sun (ASTM D2565)



### Chemical Resistance

Amount of Exposure Time 100 hours

% of initial strength

| Chemical          | Measure | Elongation at Break | Stress at Break | Modulus |
|-------------------|---------|---------------------|-----------------|---------|
| Water (22C°)      | %       | 152                 | 52              | 44      |
| IPA               | %       | 117                 | 40              | 38      |
| NaOCl             | %       | 120                 | 57              | 58      |
| Salt Fog (22C°)   | %       | 169                 | 43              | 30      |
| Motor Oil (87C°)  | %       | 93                  | 104             | 100     |
| Hydrogen Peroxide | %       | 158                 | 47              | 38      |

### Chemical Resistance

Amount of Exposure Time 500 hours

% of initial strength

| Chemical          | Measure | Elongation at Break | Stress at Break | Modulus |
|-------------------|---------|---------------------|-----------------|---------|
| Water (22C°)      | %       | 175                 | 27              | 12      |
| IPA               | %       | 0                   | 0               | 0       |
| NaOCl 5           | %       | 83                  | 28              | 31      |
| Salt Fog (22C°)   | %       | 192                 | 33              | 17      |
| Motor Oil (87C°)  | %       | 78                  | 106             | 105     |
| Hydrogen Peroxide | %       | 180                 | 22              | 7       |





## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
MATTE BLACK

## MACHINE SETTINGS

LOCTITE 3D 3843 Matte Black is formulated to print optimally on any DLP machine. It is recommended to print with 385 nm wavelength projectors with irradiance between 3-7 mW/cm<sup>2</sup>. Layer time is given below at 5 mW/cm<sup>2</sup>:

|                       |    |    |     |                          |       |
|-----------------------|----|----|-----|--------------------------|-------|
| Layer Thickness (µm): | 25 | 50 | 100 | Ec (mJ/cm <sup>2</sup> ) | 11.16 |
| First layer time (s)  | 45 | 45 | 50  | Dp (mm):                 | 0.21  |
| Burn in region (s):   | 4  | 5  | 7.5 |                          |       |

**Recommended printing Temperature range: 20°C to 45°C**

### POST PROCESSING

LOCTITE 3D 3843 requires post processing to achieve specified properties. Prior to post curing, support structures should be removed from the printed part, and the part should be washed in a compatible cleaner. LOCTITE recommends either IPA or Cleaner C in 2-minute interval wash cycles. Use compressed air to remove residual solvent from the surface of the material between intervals. Exact times and methods can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com).

### ADDITIONAL DEVELOPMENT OPTIONS

**Colors:** LOCTITE 3D 3843 formula is made with additional pigment colors.

### POST CURING

LOCTITE 3D 3843 requires post curing to achieve specified properties. A wide array of post cure equipment can be used to cure appropriately. See Validation chart for examples of type and time. Exact devices with detailed information can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com).

### LIMITATIONS

**Vat Printer:** LOCTITE 3D 3843 is not compatible with SLA printing process

**LCD printers:** LOCTITE 3D 3843 formula shows limited path forward for LCD projector printers at this time.

<https://www.loctiteam.com/printer-validation-settings/>



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
WHITE



## MECHANICAL PROPERTIES

| Mechanical Properties    | Measure | Method     | Green                     | Post Processed              |
|--------------------------|---------|------------|---------------------------|-----------------------------|
| Tensile Stress at Yield  | MPa     | ASTM D638  | 36.2 ± 1.0 <sup>[1]</sup> | 52.6 ± 1.1 <sup>[2]</sup>   |
| Tensile Stress at Break  | MPa     | ASTM D638  | 33.1 ± 2.6 <sup>[1]</sup> | 49.0 ± 1.5 <sup>[2]</sup>   |
| Young's Modulus          | MPa     | ASTM D638  | 1318 ± 31 <sup>[1]</sup>  | 1720 ± 72 <sup>[2]</sup>    |
| Elongation at Break      | %       | ASTM D638  | 74.4 ± 9.9 <sup>[1]</sup> | 47.6 ± 7.8 <sup>[2]</sup>   |
| Flexural Stress at Yield | MPa     | ASTM D790  | 38.3 ± 1.7 <sup>[3]</sup> | 71.9 ± 1.0 <sup>[4]</sup>   |
| Flexural Modulus         | MPa     | ASTM D790  | 721 ± 36 <sup>[3]</sup>   | 1673 ± 44 <sup>[4]</sup>    |
| Flexural Strain at Break | %       | ASTM D790  | >10 <sup>[3]</sup>        | >10 <sup>[4]</sup>          |
| <b>Other Properties</b>  |         |            |                           |                             |
| HDT at 0.455 MPa         | °C      | ASTM D648  | 50 <sup>[5]</sup>         | 60 <sup>[6]</sup>           |
| IZOD Impact (Notched)    | J/m     | ASTM D256  | -                         | 58.3 ± 4.17 <sup>[7]</sup>  |
| IZOD Impact (Unnotched)  | J/m     | ASTM D256  | -                         | 175.3 ± 12.8 <sup>[8]</sup> |
| Water Absorption (24hr)  | %       | ASTM D570  | -                         | 2.3 <sup>[9]</sup>          |
| Water Absorption (72hr)  | %       | ASTM D570  | -                         | 3.5 <sup>[9]</sup>          |
| Shore Hardness (0s, 3s)  | D       | ASTM D2240 | 68, 64 <sup>[10]</sup>    | 70, 76 <sup>[11]</sup>      |
| Solid Density            | g/cm    | ASTM D1475 | 1.18 <sup>[13]</sup>      | 1.18 <sup>[11]</sup>        |

| Liquid Properties        | Measure           | Method     | Value                     |
|--------------------------|-------------------|------------|---------------------------|
| Viscosity at 25°C (77°F) | cP                | ASTM D7867 | 400 – 600 <sup>[14]</sup> |
| Liquid Density           | g/cm <sup>3</sup> | ASTM D1475 | 1.07 <sup>[12]</sup>      |

\*All specimen are printed unless otherwise noted. All specimen were conditioned in ambient lab conditions at 19-23°C / 40-60% RH for at least 24 hours.\* ASTM Methods: D638 Type IV, 5 mm/min, D790-B, 2 mm/min, D648, D256 Notched IZOD (Machine Notched), 6 mm x 12 mm, D570 0.125" x 2" Disc 24hr@ 25°C, D2240, Type "D" (0, 3 seconds), D7867, D1475

**Internal Data Sources:**

[1]FOR17796, [2]FOR17795, [3]FOR17799, [4]FOR17797, [5]FOR17801, [6]FOR17800, [7]FOR17792, [8]FOR17793, [9]FOR17794, [10]FOR17790, [11]FOR17789, [12]FOR17791, [13]FOR17809, [14]FOR17804





## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
WHITE

## MACHINE SETTINGS

LOCTITE 3D 3843 White is formulated to print optimally on any DLP machine. It is recommended to print with 385 nm wavelength projectors with irradiance between 3-7 mW/cm<sup>2</sup>. Layer time is given below at 5 mW/cm<sup>2</sup>:

|                       |    |     |     |                          |       |
|-----------------------|----|-----|-----|--------------------------|-------|
| Layer Thickness (µm): | 25 | 50  | 100 | Ec (mJ/cm <sup>2</sup> ) | 7.194 |
| First layer time (s)  | 45 | 45  | 45  | Dp (mm):                 | 0.170 |
| Burn in region (s):   | 2  | 3.5 | 6   |                          |       |

**Recommended printing Temperature range: 20°C to 45°C**

### POST PROCESSING

LOCTITE 3D 3843 requires post processing to achieve specified properties. Prior to post curing, support structures should be removed from the printed part, and the part should be washed in a compatible cleaner. LOCTITE recommends either IPA or Cleaner C in 2-minute interval wash cycles. Use compressed air to remove residual solvent from the surface of the material between intervals. Exact times and methods can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com).

### ADDITIONAL DEVELOPMENT OPTIONS

**Colors:** LOCTITEn 3D 3843 formula is made with additional pigment colors.

### POST CURING

LOCTITE 3D 3843 requires post curing to achieve specified properties. A wide array of post cure equipment can be used to cure appropriately. See Validation chart for examples of type and time. Exact devices with detailed information can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com).

### LIMITATIONS

**Vat Printer:** LOCTITE 3D 3843 is not compatible with SLA printing process

**LCD printers:** LOCTITE 3D 3843 formula shows limited path forward for LCD projector printers at this time.

<https://www.loctiteam.com/printer-validation-settings/>





## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
CLEAR



## MECHANICAL PROPERTIES

| Mechanical Properties    | Measure           | Method     | Green          | Post Processed |
|--------------------------|-------------------|------------|----------------|----------------|
| Tensile Stress at Yield  | MPa               | ASTM D638  | 43.8 ± 0.7 [6] | 45.0 ± 1.5 [1] |
| Tensile Stress at Break  | MPa               | ASTM D638  | 38.0 ± 1.7 [6] | 44.0 ± 2.7 [1] |
| Young's Modulus          | MPa               | ASTM D638  | 1,562 ± 36 [6] | 1,752 ± 42 [1] |
| Elongation at Break      | %                 | ASTM D638  | 58.0 ± 24 [6]  | 41.0 ± 6.7 [1] |
| Flexural Stress at Yield | MPa               | ASTM D790  | -              | 79.0 ± 2.6 [2] |
| Flexural Modulus         | MPa               | ASTM D790  | -              | 1,878 ± 81 [2] |
| Flexural Strain at Break | %                 | ASTM D790  | -              | > 10 [2]       |
| <b>Other Properties</b>  |                   |            |                |                |
| HDT at 0.455 MPa         | °C                | ASTM D648  | -              | 63 [9]         |
| IZOD Impact (Notched)    | J/m               | ASTM D256  | -              | 65.0 ± 2.9 [3] |
| Water Absorption (24hr)  | %                 | ASTM D570  | -              | 2.13 [7]       |
| Shore Hardness (0s, 3s)  | D                 | ASTM D2240 | -              | 68, 63 [8]     |
| Solid Density            | g/cm <sup>3</sup> | ASTM D1475 | 1.17 [4]       | 1.18 [4]       |

| Liquid Properties        | Measure           | Method     | Value       |
|--------------------------|-------------------|------------|-------------|
| Viscosity at 25°C (77°F) | cP                | ASTM D7867 | 530 ± 2 [5] |
| Liquid Density           | g/cm <sup>3</sup> | ASTM D1475 | 1.07 [4]    |

"All specimen are printed unless otherwise noted. All specimen were conditioned in ambient lab conditions at 19-23C / 40-60% RH for at least 24 hours." ASTM Methods: D638 Type IV, 5mm/min, D790-B, 2mm/min, D648, D256 Notched IZOD (Machine Notched), 6 mm x 12 mm, D570 0.125" x 2" Disc 24hr@ 25°C, D2240, Type "D" (0, 3 seconds), D7867, D1475

**Internal Data Sources:**

[1]FOR17386, [2]FOR17382, [3]FOR17385, [4]FOR17383, [5]FOR17381, [6]FOR17201, [7]FOR17380, [8]FOR19616, [9]FOR20038, [10]FOR20009, [11]FOR20010



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
CLEAR



## CLEAR COLOR PROPERTIES

In order to assess clear properties, color variation is measured as Delta-E (dE) to define parts transmittance.

dE measures changes from L\*a\*b\*C\*h. The table below shows the color variation for two different workflows:

Method: ASTM E308, Total Transmission

| Part State                                 | L*    | a*    | b*   | C*   | h      | dE   |
|--|-------|-------|------|------|--------|------|
| Green / no post-processing <sup>[10]</sup> | 93.11 | -1.06 | 2.28 | 2.52 | 114.9  | -    |
| Dymax 5000EC 5 min/side <sup>[10]</sup>    | 93.20 | -0.46 | 1.14 | 1.22 | 111.89 | 1.29 |
| Loctite CL36 60 min/side <sup>[11]</sup>   | 92.89 | -0.36 | 1.28 | 1.33 | 105.85 | 1.24 |

The table below shows color variation after ageing for 650 hours

A dE of 1.0 - 2.0 change is the smallest color difference, in average, that the human eye can perceive

QUV exterior weathering conditions (ASTM G-154—Cycle 1): Clear color

Method: ASTM G-154—Cycle 1 & ASTM E308, Total Transmission

| QUV Exposure Time (Hrs) | L*    | a*    | b*   | C*   | h      | dE   |
|-------------------------|-------|-------|------|------|--------|------|
| 0                       | 93.82 | -0.49 | 1.35 | 1.44 | 109.91 | -    |
| 325                     | 93.10 | -0.61 | 1.68 | 1.79 | 109.96 | 0.80 |
| 650                     | 93.40 | -0.86 | 2.47 | 2.61 | 109.22 | 1.25 |



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
CLEAR

## MACHINE SETTINGS

LOCTITE 3D 3843 Clear is formulated to print optimally on any DLP machine. It is recommended to print with 385 nm wavelength projectors with irradiance between 3-7 mW/cm<sup>2</sup>. Layer time is given below at 5 mW/cm<sup>2</sup>:

|                       |    |     |     |                          |      |
|-----------------------|----|-----|-----|--------------------------|------|
| Layer Thickness (µm): | 25 | 50  | 100 | Ec (mJ/cm <sup>2</sup> ) | 7.67 |
| First layer time (s)  | 45 | 45  | 45  | Dp (mm):                 | 0.18 |
| Burn in region (s):   | 2  | 3.5 | 6   |                          |      |

**Recommended printing Temperature range: 20°C to 45°C**

### POST PROCESSING

LOCTITE 3D 3843 requires post processing to achieve specified properties. Prior to post curing, support structures should be removed from the printed part, and the part should be washed in a compatible cleaner. LOCTITE recommends either IPA or Cleaner C in two-minute interval wash cycles. Use compressed air to remove residual solvent from the surface of the material between intervals. Exact times and methods can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com)

### ADDITIONAL DEVELOPMENT OPTIONS

**Colors:** LOCTITE 3D 3843 formula is made with additional pigment colors.

### POST CURING

LOCTITE 3D 3843 requires post curing to achieve specified properties. A wide array of post cure equipment can be used to cure appropriately. See Validation chart for examples of type and time. Exact devices with detailed information can be found by contacting us at [www.loctiteAM.com](http://www.loctiteAM.com)

### LIMITATIONS

**Vat Printer:** LOCTITE 3D 3843 is not compatible with SLA printing process

**LCD printers:** LOCTITE 3D 3843 formula shows limited path forward for LCD projector printers at this time.

<https://www.loctiteam.com/printer-validation-settings/>



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC  
GRAY



## MECHANICAL PROPERTIES

| Mechanical Properties          | Measure           | Method     | Green                    | Post Processed           |
|--------------------------------|-------------------|------------|--------------------------|--------------------------|
| Tensile Stress at Yield        | MPa               | ASTM D638  | 43.8 ± 1 <sup>[1]</sup>  | 55 ± 2 <sup>[2]</sup>    |
| Tensile Stress at Break        | MPa               | ASTM D638  | 38 ± 1.5 <sup>[1]</sup>  | 52 ± 2 <sup>[2]</sup>    |
| Young's Modulus                | MPa               | ASTM D638  | 1375 ± 19 <sup>[1]</sup> | 1844 ± 48 <sup>[2]</sup> |
| Elongation at Break            | %                 | ASTM D638  | 76 ± 8 <sup>[1]</sup>    | 46 ± 8 <sup>[2]</sup>    |
| Flexural Stress at Yield       | MPa               | ASTM D790  | -                        | 82 ± 1 <sup>[3]</sup>    |
| Flexural Modulus               | MPa               | ASTM D790  | -                        | 1807 ± 56 <sup>[3]</sup> |
| Flexural Strain at Break       | %                 | ASTM D790  | -                        | >10 <sup>[3]</sup>       |
| <b>Other Properties</b>        |                   |            |                          |                          |
| HDT at 0.455 MPa               | °C                | ASTM D648  | -                        | 64 <sup>[9]</sup>        |
| IZOD Impact Strength (Notched) | J/m               | ASTM D256  | -                        | 67 ± 9 <sup>[4]</sup>    |
| Water Absorption (24hr)        | %                 | ASTM D570  | -                        | 2.37 <sup>[5]</sup>      |
| Shore Hardness (0s, 3s)        | D                 | ASTM D2240 | -                        | 70,65 <sup>[8]</sup>     |
| Solid Density                  | g/cm <sup>3</sup> | ASTM D1475 | -                        | 1.182 <sup>[6]</sup>     |

| Liquid Properties        | Measure           | Method     | Value                  |
|--------------------------|-------------------|------------|------------------------|
| Viscosity at 25°C (77°F) | cP                | ASTM D7867 | 594 ± 2 <sup>[7]</sup> |
| Liquid Density           | g/cm <sup>3</sup> | ASTM D1475 | 1.0713 <sup>[6]</sup>  |

\*All specimen are printed unless otherwise noted. All specimen were conditioned in ambient lab conditions at 19-23C / 40-60% RH for at least 24 hours.\* ASTM Methods: D638 Type IV, 5mm/min, D790-B, 2mm/min, D648, D256 Notched IZOD (Machine Notched), 6 mm x 12 mm, D570 0.125" x 2" Disc 24hr@ 25°C, D2240, Type "D" (0, 3 seconds), D7867, D1475

**Internal Data Sources:**

[1]FOR19718, [2]FOR16101, [3]FOR16102, [4]FOR16331, [5]FOR16137, [6]FOR17364, [7]FOR10661, [8]FOR16332, [9]FOR18826



## 3843™

HDT60 HIGH TOUGHNESS  
PHOTOPLASTIC



## NOTE

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

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