



GL ROBOTICS

YOUR GATEWAY TO NEW TECHNOLOGY

Technical Data Sheet

PETG

Unreinforced Glycol modified Co-polyester PETG

Physical Properties	Test Method	Value
Mechanical		
Tensile Stress, yld, Type 1, 50 mm/min	ASTMD 638	50 Mpa
Tensile Strain, brk, Type 1, 50 mm/min	ASTMD 638	28 Mpa
Elongation at Break	ASTMD 638	140%
Flexural Strength, 1.27 mm/min, 50mm span	ASTMD 790	73 Mpa
Flexural Modulus, 1.3 mm/min, 50 mm span	ASTMD 790	2110 Mpa
Impact		
Izod Impact, notched, 23°C	ASTM D 256	100 J/m
Impact Resistance in 3.2mm plaque	ASTM D 3763	33 J
Thermal		
HDT, 0.45 Mpa	ASTM D 648	70 C
HDT, 1.82 Mpa	ASTM D 648	64 C
Vicat Softening temp	ASTM D 1525	85C
Glass Transition Temp (tg)	DSC	80C
Physical		
Specific Gravity	ASTM D 792	1.27
Rockwell Hardness	ASTM D 785	110.00
Water Absorbtion	ASTM D 570	0.13%

Notes: The values presented are laboratory averages and may vary within a moderate range for 3D printed parts