

Helping you mould your future



Technical Data Sheet

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Product Description

VP312 is a butene co-monomer based LMDPE displaying excellent processing, toughness, and impact strength. VP312 is suitable for applications where low warpage and high flow are required.

The base resin of VP312 is compliant with the food contact requirements according to the **U.S. FDA 21** code of federal regulations part 177.1520 (c) (2.1). It is also compliant with the Australian food contact requirements of **AS2070**.

VP312 is compliant with EU food contact regulations, please contact us for further details.

VP312 base resin has passed AS/NZS 4020:2018 testing of products for use in contact with drinking water.

VP312 contains a long-term UV package greater than UV8.

VP312 is available in our range of standard colours.

Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	7.0	g/10 min	ASTM D 1238
Density	0.934	g/cm ³	ASTM D 1505
ESCR Condition B F50 (100% IGEPAL)	24	Hrs	ASTM D 1693
ESCR Condition B F50 (10% IGEPAL)	86	Hrs	ASTM D 1693
Flexural Modulus (1% Secant, 12.7mm/min)	600	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min) ³	18	MPa	ASTM D 638
Elongation at Break (50mm/min) ³	700	%	ASTM D 638
ARM Impact Strength (6.4mm sample at -40 C) ²	220	J	ARM
Shore Hardness	56	Shore D	ASTM D 2240

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VP312

LMDPE

Rotational Moulding Grade

Melt Flow Index: 7.0
Density: 0.934

Typical Applications

Recreational Equipment
Toys
Agricultural Equipment
Playground Equipment
Industrial Bin Lids

Data values shown are average values for the base resin and should not be used for specification limits.