



Technical Data Sheet

Product Description

VP305 is a butene based co-polymer Linear medium density polyethylene and is suitable for the moulding of large tanks where a balance of good flow and long term creep resistance is required.

The base resin in VP305 is compliant with the food contact requirements of the FDA and the Australian food contact requirements of AS2070 and drinking (potable) water standard AS/NZS 4020:2005

VP305 offers excellent ESCR, impact strength and contains a long term UV stabilisation package greater than UV8.

VP305 conforms to the AS/NZS: 4766 Polyethylene Storage Tanks for water storage and Chemicals

VP305

LMDPE

Rotational Moulding Resin

Melt Flow Index: 3.2
Density: 0.938

Typical Applications

Large Water Tanks
Bins
Chemical Tanks
Underground Tanks
Pallets
Silos

Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	3.2	g/10 min	ASTM D 1238
Density	0.938	g/cm ³	ASTM D 1505
ESCR Condition A F50 (100% IGEPAL)	>500	Hrs	ASTM D 1693
ESCR Condition A F50 (10% IGEPAL)	N/A	N/A	ASTM D 1693
Flexural Modulus (1% Secant, 12.7 mm/min)	785	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min) ³	18	MPa	ASTM D 638
Elongation at Break (50mm/min) ³	900	%	ASTM D 638
ARM Impact Strength (3.2mm sample at -40 C) ²	TBA	J	ARM
Shore Hardness	63	Shore D	ASTM D 2240

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

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