Helping you mould your future

Technical Data Sheet

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Product Description

VP309 is a hexene co-polymer based linear high density polyethylene and has specifically been designed for the moulding of large tanks where rigidity and creep resistance is a key requirement in the finished product.

The base resin in VP309 is compliant with the food contact requirements of the FDA and the Australian food contact requirements of AS2070 and drinking (potable) water standard NSF/ANSI standard 61 for potable water (CLD 23).

VP309 offers good ESCR, wide process windows, fair flow, excellent impact strength and contains a long-term UV stabilisation package greater than UV8.

VP309

HDPE
Rotational Moulding Grade

Melt Flow Index: **2.0**
Density: **0.943**

Typical Applications
Large Water Tanks
Chemical Tanks
Underground Tanks

Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	2.0	g/10 min	ASTM D 1238
Density	0.943	g/cm³	ASTM D 1505
ESCR Condition A F50 (100% IGEPAL)	700	Hrs	ASTM D 1693
ESCR Condition A F50 (10% IGEPAL)	250	Hrs	ASTM D 1693
Flexural Modulus (2% Secant, 12.7mm/min)	720	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min)[3]	21	MPa	ASTM D 638
Elongation at Break (50mm/min)[3]	720	%	ASTM D 638
ARM Impact Strength (3.2mm sample at -40 C)[2]	92	J	ARM
Shore Hardness	61	Shore D	ASTM D 2240

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