



Technical Data Sheet

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Product Description

VX555 is a new generation Metallocene Hexene 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 catalyst technology leads to superior mechanical properties as well as faster sintering and processing when compared to conventional rotational moulding grades.

The base resin in VX555 is compliant with the Australian food contact requirements of AS/NZS 2070 and drinking (potable) water standard AS/NZS4020:2005.

VX555 offers excellent ESCR, impact strength and contains a long term UV stabilisation package greater than UV8.

VX555 conforms to the AS/NZS4766 Polyethylene storage tanks for water and chemicals.

VX555

Metallocene LMDPE Rotational Moulding Resin

Melt Flow Index: **3.5**
Density: **0.939**

Typical Applications

Large Water Tanks
Kayaks
Chemical Tanks
Underground Tanks
Pallets
Silos

Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	3.5	g/10 min	ASTM D 1238
Density	0.939	g/cm ³	ASTM D 1505
ESCR Condition A F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
ESCR Condition A F50 (10% IGEPAL)	>500	Hrs	ASTM D 1693
Flexural Modulus (1% Secant, 12.7mm/min)	800	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min) ³	19	MPa	ASTM D 638
Elongation at Break (50mm/min) ³	1000	%	ASTM D 638
ARM Impact Strength (3.2mm sample at -40 C) ²	-	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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