Helping you mould your future

Technical Data Sheet

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Product Description

VPX506 is a new generation Metallocene Hexene high density polyethylene and is ideally suited for applications where good flow and stiffness is required combined with excellent impact strength. The catalyst technology leads to superior mechanical properties as well as faster sintering and processing when compared to conventional rotational moulding grades.

VPX506 has been primarily developed for use in Diesel tank applications and complies with European standard TUV International regulation ECE R34, Part 1, Annex 5 European Directive 70/221/EEC amended by 2006/96/EC.

The combination of high flow, good impact strength and high stiffness also makes VX506 ideal for the manufacture of Kayaks.

The base resin in VX506 is compliant with the Australian food contact requirements of AS/NZS 2070. VX506 offers excellent ESCR, impact strength and contains a long term UV stabilisation package greater than UV8.

VX506

Metallocene HDPE
Rotational Moulding Resin

Melt Flow Index: **5.2**
Density: **0.941**

Typical Applications
Water Tanks
Kayaks
Bins
Diesel Tanks
Pallets
Floats

Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	5.2	g/10 min	ASTM D 1238
Density	0.941	g/cm³	ASTM D 1505
ESCR Condition A F50 (100% IGEPAL)	>1000	Hrs	ASTM D 1693
ESCR Condition A F50 (10% IGEPAL)	TBA	Hrs	ASTM D 1693
Flexural Modulus (1% Secant, 12.7mm/min)	825	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min)[3]	20	MPa	ASTM D 638
Elongation at Break (50mm/min)[3]	1000	%	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.