



# Technical Data Sheet

**Vision Plastics New Zealand Ltd**  
3 Furnace Place, Silverdale, Auckland, NZ  
P O Box 443, Silverdale 0944  
Telephone 09 427 0674

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## Product Description

VP301 is a butene based co-polymer linear medium density polyethylene with narrow molecular weight distribution displaying excellent processability, stiffness and impact strength. VP301 is suitable for applications where high stiffness with good flow is required.

VP301 is compliant with the U.S. food & drug Administration regulation 121.2501 entitled "Olefin Polymers" currently in effect.

VP301 contains a long term UV8 stabilisation package.

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## VP301

### LMDPE Rotational Moulding Grade

Melt Flow Index: 5.0  
Density: 0.938

**Typical Applications**  
Small Storage Tanks  
Toys  
Agricultural Equipment  
Playground Equipment  
Kayaks

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## Physical Characteristics

Characteristics	Value	Unit	Test Method
Melt Flow Index (MFI)	5.0	g/10 min	ASTM D 1238
Density	0.938	g/cm <sup>3</sup>	ASTM D 1505
ESCR Condition A F50 (100% IGEPAL)	>1000	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)	790	MPa	ASTM D 790
Tensile Strength at Yield (50mm/min) <sup>3</sup>	18	MPa	ASTM D 638
Elongation at Break (50mm/min) <sup>3</sup>	700	%	ASTM D 638
ARM Impact Strength (3.2mm sample at -40 C) <sup>2</sup>	-	J	ARM
Shore Hardness	55	Shore D	ASTM D 2240

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

Vision Plastics NZ Limited disclaims responsibility for results of the use of this information. Please be guided by your own tests to determine the suitability of the product for each particular application.