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GS Caltex

50100

Polyethylene Product

Product Description

50100 *is a polyethylene product suitable for blow molding. This material is polymerized with a chromium catalyst and it is designed for large blow molded parts that require melt strength, rigidity, ESCR. It is used for Shipping containers, Jerricans, Agricultural chemical tanks.*

Product Characteristic

Test Method Used	ASTM	
Features	Melt strength	Rigidity
Typical Customer Applications	Jerrican	Containers

Typical Properties

Physical		**Test Method**	**Unit**	**Value**
	Melt Flow Rate (21.6 kg @190°C)	ASTM D1238	g/10min	9.75
	Density	ASTM D1505	g/cm^3	0.948
Mechanical		**Test Method**	**Unit**	**Value**
	Tensile strength @ Yield	ASTM D638	MPa	25
	Tensile Elongation @ 23°C	ASTM D638	%	600
	Flexural Modulus(13mm/min)	ASTM D790	MPa	1200
	ESCR (Condition B, 100% Igepal, F50)	ASTM D1693	hr	1000
	Brittleness Temperature	ASTM D746	℃	<-75
	Shore D	ASTM D2240	-	68
Thermal		**Test Method**	**Unit**	**Value**
	Vicat	ASTM D1525	℃	126

Notes: Property values are not to be construed as specifications.

Technical Data Sheet

Processing Recommendation

The actual conditions depends on the type of equipment used.

Blow Molding

50100 *is* easy to process with standard Blow molding machines. Following molding parameters should be used as guidelines:

Blow Molding Temperature	190 – 230 °C
Extrusion Melt Temperature	190 – 230 °C

Storage

This material should be stored in dry conditions, protected from sunlight and at temperatures below 50 °C.

Contact

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