

POLYETHYLENE

B2555

Bimodal High Density Polyethylene for blow molding application

Description

B2555 is a medium molecular weight high density polyethylene resin used for blow molding. Blow molded parts made from this resin exhibit high stiffness, good impact strength and good Environmental Stress-Cracking Resistance (ESCR).

Applications

- Small and medium size containers for household and industrial chemicals.

Resin Properties	Unit	Test Method	Typical Value
MFR (190°C/2.16Kg)	g/10min	ASTM D1238	0.3
MFR (190°C/5.0Kg)	g/10min	ASTM D1238	1.4
Density	g/cm ³	ASTM D792 Method A	0.954
Mechanical Properties*			
Tensile Strength at Yield	MPa	ASTM D638	27
Tensile Strength at Break	MPa	ASTM D638	34
Tensile Elongation at Break	%	ASTM D638	740
Flexural Modulus	MPa	ASTM D790	1200
Tensile Impact	kJ/m ²	ASTM D1822	200
Izod Impact, Notched 23 °C	kJ/m ²	ASTM D256	10
Izod Impact, Notched -30 °C	kJ/m ²	ASTM D256	5.0
Shore Hardness-D		ASTM D2240	68
ESCR (Igepal10%) F ₅₀	Hr.	ASTM D1693	63
Thermal Properties*			
Vicat Softening Temperature @10N	°C	ASTM D1525	127

*Test specimen preparation Method: Pursuant to ASTM D4976

Processing conditions: Typical processing conditions: 160 – 200 °C

Storage and handling: B2555 should be stored in a dry cool place with adequate ventilation and protected from UV-light at temperatures below 50°C. It is advisable to process polyethylene resins within 6 months after delivery.

Food Contact Compliance and other Regulations: Please visit Petro Rabigh website.