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TECHNICAL DATA SHEET

B2555 –(BIMODAL HIGH-DENSITY POLYETHYLENE)

Product 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).

Application:

• Small and medium size containers for household and industrial chemicals

Origin: SAUDI

- Petro Rabigh

Resin Properties	Units	Test Methods	Typical Values
Melt Flow Rate (190°C/2.16 kg)	g/10 min	ASTM D1238	0.3
Melt Flow Rate (190°C/5.0 kg)	g/10 min	ASTM D1238	1.4
Density	g/cm3	ASTM D792 Method A	0.954
Mechanical Properties *			
Tensile Strength @ Yield	MPa	ASTM D638	27
Tensile Strength @ Break	MPa	ASTM D638	34
Tensile Elongation @ Break	%	ASTM D638	740
Flexural Modulus	MPa	ASTM D790	1200
Tensile Impact	kJ/m^2	ASTM D1822	200
Izod Impact, Notched 23 ºC	kJ/m^2	ASTM D256	10
Izod Impact, Notched -30 ºC	kJ/m^2	ASTM D256	5.0
Shore Hardness-D		ASTM D2240	68
ESCR (Igepal10%) F50	Hr.	ASTM D1693	63
Thermal Properties			
Vicat Softening Temperature @ 10N	°C	ASTM D1525	127

Processing condition:

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.