

Sumitomo PE B2555

High Density Polyethylene

Sumitomo Chemical Asia

Message:

Applications For small to medium sized containers for household and industrial chemicals, toiletries and cosmetics tubes, automotive supplies, etc.
Characteristics High rigidity, good flowability, and stress cracking properties.

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Flow		
	High Rigidity		
Uses	Automotive Applications		
	Containers		
	Cosmetic Packaging		
	Industrial Containers		
	Personal Care		
	Tubing		
Agency Ratings	EU 2002/72/EC		
	EU 2004/19/EC		
	FDA 21 CFR 177.1520		
Forms	Pellets		
Processing Method	Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.954	g/cm ³	ISO 1183/A
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/2.16 kg	0.25	g/10 min	
190°C/5.0 kg	1.2	g/10 min	
Environmental Stress-Cracking Resistance (10% Igepal)	63.0	hr	ASTM D1693B
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	68		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	28.0	MPa	
Break	35.0	MPa	
Tensile Elongation (Break)	740	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790A
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact Strength			ASTM D256
-30°C	5.0	kJ/m ²	
23°C	10	kJ/m ²	
Tensile Impact Strength	200	kJ/m ²	ASTM D1822
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	127	°C	ASTM D1525 ¹
Additional Information	Nominal Value	Unit	
Blow Molding Mold Temperature	15.0 to 40.0		
Blow Molding Temperature	180 to 200	°C	
NOTE			

1. Rate A (50°C/h), Loading 1 (10 N)

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