

Borealis PE BS2581

High Density Polyethylene

Borealis AG

Message:

BS2581 is a high density polyethylene intended for blow moulding products with high stiffness and very good environmental stress crack resistance (ESCR).

General Information			
Features	High ESCR (Stress Crack Resist.)		
	High Stiffness		
Uses	Bottles		
	Containers		
	Household Goods		
	Industrial Applications		
Forms	Pellets		
Processing Method	Blow Molding		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.958	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/2.16 kg	0.30	g/10 min	
190°C/21.6 kg	28	g/10 min	
190°C/5.0 kg	1.3	g/10 min	
Environmental Stress-Cracking Resistance (10% Antarox, F50)	100	hr	ASTM D1693A
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	65		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	29.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	8.0	%	ISO 527-2/50
Flexural Modulus ¹	1400	MPa	ISO 178
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	80.0	°C	ISO 75-2/B
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	170 to 190	°C	
Cylinder Zone 2 Temp.	170 to 190	°C	

Cylinder Zone 3 Temp.	170 to 190	°C
Cylinder Zone 4 Temp.	170 to 190	°C
Cylinder Zone 5 Temp.	170 to 190	°C
Melt Temperature	170 to 200	°C
Die Temperature	175 to 190	°C

NOTE

1. 1.0 mm/min

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