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/cm³	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

Recommended distributors for this material

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