Borealis PP BA160E-8229-01

Polypropylene Impact Copolymer

Borealis AG

Message:

BA160E-8229-01 is an impact polypropylene heterophasic copolymer (block copolymer) with optimised mechanical properties, intended for injection moulding of compression pipe fittings and is coloured black
The product features very good processability. It also shows excellent stress crack resistance and a good resistance to chemicals. BA160E-8229-01 is characterised by a combination of high stiffness and high impact strength, also at low temperatures. BA160E-8229-01 has a ß-crystalline molecular PP structure which improves the mechanical properties as well as the crystallisation temperature. This allows for cycle time reduction during injection moulding through higher demoulding temperatures and shorter cooling time.
BA160E-8229-01 is classified as an MRS 8.0 material (PE80). The additive formulation is designed for appropriate durability

General Information			
Features	Acid Resistant		
	Good Chemical Resistance		
	Good Processability		
	High ESCR (Stress Crack Resist.)		
	High Impact Resistance		
	High Stiffness		
	Impact Copolymer		
	Low Temperature Impact Resistance		
	Recyclable Material		
Uses	Fittings		
Appearance	Black		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.900	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	0.30	g/10 min	ISO 1133
Molding Shrinkage	1.0 to 2.0	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1300	MPa	ISO 527-2/1
Tensile Stress (Yield)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	11	%	ISO 527-2/50
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m²	
23°C	50	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature (0.45 MPa, Unannealed)	89.0	°C	ISO 75-2/B
Vicat Softening Temperature	86.0	°C	ISO 306/B50

Injection	Nominal Value	Unit
Processing (Melt) Temp	230 to 260	°C
Mold Temperature	10.0 to 40.0	°C

Recommended distributors for this material

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