

# Beta (β)-PP™ BE60-7032

Polypropylene Homopolymer

Borealis AG

## Message:

Beta-PP BE60-7032 is a high molecular weight, low melt flow rate polypropylene homopolymer with fine grained beta-modification crystalline structure leading to excellent impact strength even at low temperatures, increased hydrostatic strength and improved chemical resistance.

Beta-PP BE60-7032 is recommended for pressure pipes and fittings, chemical engineering components, extruded and compression moulded sheets, filter plates and solid rods. The material is coloured grey based on RAL 7032.

General Information			
Features	High molecular weight		
	Homopolymer		
	Impact resistance, good		
	Recyclable materials		
	Low liquidity		
	Low temperature impact resistance		
	Good chemical resistance		
Uses	Bar		
	Piping system		
	Accessories		
	Sheet		
Appearance	Grey		
Forms	Particle		
Processing Method	Sheet extrusion molding		
	Compression molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/5.0 kg	0.50	g/10 min	ISO 1133
230°C/2.16 kg	0.30	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (Injection Molded)	1300	MPa	ISO 527-2/1
Tensile Stress (Yield, Injection Molded)	30.0	MPa	ISO 527-2/50
Tensile Strain (Yield, Injection Molded)	10	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	5.0	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	50	kJ/m <sup>2</sup>	ISO 179/1eA

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	96.0	°C	ISO 75-2/B
Vicat Softening Temperature	91.0	°C	ISO 306/B50
Extrusion	Nominal Value	Unit	
Cylinder Zone 1 Temp.	190 - 230	°C	
Melt Temperature	200 - 230	°C	
Die Temperature	200 - 230	°C	
Extrusion instructions			

Head Temperature: 200 to 230°C

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#### Recommended distributors for this material

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