

Borealis PP HK060AE

Polypropylene Homopolymer

Borealis AG

Message:

HK060AE is a special low viscosity polypropylene homopolymer compound developed to fit the production of Glass Matt reinforced Thermoplastics. This material is also suitable as base resin for the production of PP-GF composites in the direct LFT compression and injection moulding process as well as in combination with LGF concentrates on the injection moulding process.

General Information			
Additive	Heat Stabilizer		
Features	Heat Stabilized		
	Homopolymer		
Uses	Automotive Electronics		
	Automotive Exterior Parts		
	Automotive Instrument Panel		
Forms	Pellets		
Processing Method	Compression Molding		
	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.905	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	130	g/10 min	ISO 1133
Molding Shrinkage	1.5	%	Internal Method
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 132/10)	78.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1600	MPa	ISO 527-2/1
Tensile Stress (Yield)	35.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	8.0	%	
Break	15	%	
Flexural Modulus ¹	1550	MPa	ISO 178
Flexural Stress	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	0.80	kJ/m ²	
-20°C	0.90	kJ/m ²	
23°C	1.0	kJ/m ²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	11	kJ/m ²	
23°C	55	kJ/m ²	
Notched Izod Impact Strength			ISO 180/1A
-20°C	1.6	kJ/m ²	
23°C	1.8	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	91.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	54.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	153	°C	ISO 306/A50
--	96.0	°C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	9.0E-5	cm/cm/°C	Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	220 to 270	°C	
Mold Temperature	30.0 to 60.0	°C	
Injection Rate	Slow-Moderate		
NOTE			
1.	2.0 mm/min		

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