

Borealis PP HK030U

Compounded Polypropylene

Borealis AG

Message:

HK030U is a special low viscosity polypropylene compound developed to fit 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.

The product is available in standard black 9502.

General Information			
Filler / Reinforcement	Glass Fiber		
Features	Heat Stabilized		
	Noise Damping		
	Recyclable Material		
Uses	Automotive Applications		
	Automotive Exterior Parts		
Processing Method	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)	350	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	72.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (1.00 mm)	1550	MPa	ISO 527-2
Tensile Stress (Yield)	33.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus ¹	1450	MPa	ISO 178
Flexural Stress	43.0	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	45	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	53.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A
--	89.0	°C	ISO 306/B
CLTE - Flow (-30 to 80°C)	1.1E-4	cm/cm/°C	ISO 11359-2
NOTE			
1.	2.0 mm/min		

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