PENTAMID B GK20 H UV black

Polyamide 6

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 6, 20% glass bead reinforced, UV stabilised

General Information	
Filler / Reinforcement	Glass beads, 20% filler by weight
Additive	heat stabilizer UV stabilizer
Features	Good UV resistance Thermal Stability
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
Forms	Particle
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.27	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.0	--	%	ISO 294-4
Flow	1.0	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	6.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.1	--	%	ISO 62
Viscosity Number	145	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	4050	1950	MPa	ISO 527-2/1
Tensile Stress (Break)	70.0	50.0	MPa	ISO 527-2/5
Tensile Strain (Break)	9.0	25	%	ISO 527-2/5

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90 kJ/m²	No Break		ISO 179/1eU

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	185	--	°C	ISO 75-2/B

1.8 MPa, not annealed	75.0	--	°C	ISO 75-2/A
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	30	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80	--		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA6, MHRC, 14-040 N, GB20	--		ISO 1874
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.060 - 0.14		%	
Suggested Max Regrind	20		%	
Rear Temperature	260 - 280		°C	
Middle Temperature	265 - 290		°C	
Front Temperature	270 - 280		°C	
Processing (Melt) Temp	255 - 295		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	65.0		MPa	
Screw L/D Ratio	18.0:1.0 to 22.0:1.0			
Screw Compression Ratio	2.2:1.0 to 2.8:1.0			

Recommended distributors for this material

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