

PENTAMID B E20 H natur

Polyamide 6
PENTAC Polymer GmbH

Message:
normal viscosity, heat stabilised and very high impact resistant polyamide 6

General Information				
Additive	heat stabilizer			
Features	Ultra-high impact resistance			
	Low temperature impact resistance			
	Thermal Stability			
Uses	Sporting goods			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Natural color			
Forms	Particle			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.03	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.7	--	%	ISO 294-4
Flow direction	1.5	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	8.5	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.3	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	90.0	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1700	700	MPa	ISO 527-2/1
Tensile Stress (Yield)	45.0	30.0	MPa	ISO 527-2
Tensile Strain (Yield)	15	35	%	ISO 527-2
Flexural Modulus	2000	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	20	--	kJ/m ²	ISO 179/1eA
23°C	No Break	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	135	--	°C	ISO 75-2/B
1.8 MPa, not annealed	50.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	40	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	--		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94

Additional Information

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ISO Description: PA6-HI, MHR, 14-020 N The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

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ISO Description: PA6-HI, MHR, 14-020 N

Injection	Dry	Unit	
Drying Temperature	75.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.14	%	
Suggested Max Regrind	20	%	
Rear Temperature	250 - 275	°C	
Middle Temperature	265 - 280	°C	
Front Temperature	265 - 275	°C	
Processing (Melt) Temp	270	°C	
Mold Temperature	80.0	°C	
Injection Pressure	55.0	MPa	
Holding Pressure	33.0	MPa	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.2:1.0 to 2.8:1.0		

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