

PENTAMID B GV30 H natur

Polyamide 6

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 6, 30% glass fiber reinforced

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Heat Stabilized			
Uses	Handles			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Natural Color			
Forms	Pellets			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.70	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	6.7	--	%	
Equilibrium, 23°C, 50% RH	2.1	--	%	
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	220	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	10000	5500	MPa	ISO 527-2/1
Tensile Stress (Break)	180	120	MPa	ISO 527-2
Tensile Strain (Break)	4.0	8.0	%	ISO 527-2
Flexural Modulus	8100	--	MPa	ISO 178
Flexural Stress	240	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	13	--	kJ/m ²	
23°C	14	21	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	75	--	kJ/m ²	

23°C	95	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	205	--	°C	ISO 75-2/A
Melting Temperature	222	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	--		IEC 60250
Comparative Tracking Index	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		
3.20 mm	HB	--		
Additional Information	Dry	Conditioned		Test Method
ISO Type				
--	--	PA6, MHR, 14-100, GF30		ISO 11357
--	PA6, MHR, 14-100, GF30	--		ISO 1874
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.090		%	
Suggested Max Regrind	20		%	
Rear Temperature	260 to 285		°C	
Middle Temperature	275 to 290		°C	
Front Temperature	275 to 285		°C	
Processing (Melt) Temp	280		°C	
Mold Temperature	80.0		°C	
Injection Pressure	71.5		MPa	
Holding Pressure	42.9		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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