PENTAMID B GV40 E H schwarz

Polyamide 6

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 6, 40% glass fiber reinforced, impact modified

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 40% filler by weight			
Additive	Impact modifier heat stabilizer			
Features	Impact modification Rigid, good Low temperature impact resistance Thermal Stability			
Uses	Sporting goods			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.42	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.55	--	%	ISO 294-4
Flow direction	0.40	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	5.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.6	--	%	ISO 62
Viscosity Number	145	--	cm³/g	ISO 307
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	190	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	11000	7150	MPa	ISO 527-2/1
Tensile Stress (Break)	160	110	MPa	ISO 527-2
Tensile Strain (Break)	3.6	7.5	%	ISO 527-2
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	26	35	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	95	100	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Heat Deflection Temperature				
0.45 MPa, not annealed	215	--	°C	ISO 75-2/B
1.8 MPa, not annealed	205	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Dielectric Strength (1.00 mm)	30	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.90	--		IEC 60250
Comparative Tracking Index	500	--	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

干燥
ISO Description: PA6-HI, MHRC, 14-110 N, GF40The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

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ISO Description: PA6-HI, MHRC, 14-110 N, GF40Unnotched Charpy Impact, ISO 179, 23°C, Type 1, Edgewise: >100 kJ/m²

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 - 285	°C
Middle Temperature	275 - 290	°C
Front Temperature	275 - 285	°C
Processing (Melt) Temp	280	°C
Mold Temperature	80.0	°C
Injection Pressure	75.0	MPa
Holding Pressure	45.0	MPa
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	

Recommended distributors for this material

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