

PENTAMID B GV50 H schwarz

Polyamide 6

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 6, 50% glass fiber reinforced

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 50% filler by weight			
Additive	heat stabilizer			
Features	Thermal Stability			
Uses	Shell			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.45	--	%	ISO 294-4
Flow direction	0.25	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	4.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	ISO 62
Viscosity Number	145	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	270	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15000	11000	MPa	ISO 527-2/1
Tensile Stress (Break)	215	145	MPa	ISO 527-2
Tensile Strain (Break)	2.8	3.7	%	ISO 527-2
Flexural Modulus	14000	--	MPa	ISO 178
Flexural Stress	330	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	100	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	220	--	°C	ISO 75-2/B

1.8 MPa, not annealed	210	--	°C	ISO 75-2/A
Melting Temperature (DSC)	222	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	34	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	--		IEC 60250
Comparative Tracking Index	252	--	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, MHRC, 14-150 N, GF50The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA6, MHRC, 14-150 N, GF50

Injection	Dry	Unit	
Drying Temperature	80.0	°C	
Drying Time	3.0	hr	
Suggested Max Moisture	0.070	%	
Suggested Max Regrind	20	%	
Rear Temperature	270 - 295	°C	
Middle Temperature	285 - 300	°C	
Front Temperature	285 - 295	°C	
Processing (Melt) Temp	290	°C	
Mold Temperature	80.0	°C	
Injection Pressure	82.5	MPa	
Holding Pressure	49.5	MPa	
Screw L/D Ratio	20.0:1.0		
Screw Compression Ratio	2.2:1.0 to 2.8:1.0		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection.All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT