

PENTAMID B S GV60 H natural

Polyamide 6
PENTAC Polymer GmbH

Message:
Low viscosity, heat stabilised polyamide 6, 60% glass fiber reinforced

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 60% filler by weight		
Additive		heat stabilizer		
Features		Low viscosity		
		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.68	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.35	--	%	ISO 294-4
Flow	0.20	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	4.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.2	--	%	ISO 62
Viscosity Number	120	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19000	14700	MPa	ISO 527-2/1
Tensile Stress (Break)	220	155	MPa	ISO 527-2/5
Tensile Strain (Break)	2.1	3.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	21	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	95	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	215	--	°C	ISO 75-2/A
Melting Temperature	221	--	°C	ISO 11357-3

Flammability	Dry	Conditioned	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, MHR, 12-190, GF60	--	ISO 1874
Injection	Dry	Unit	
Drying Temperature	80		°C
Drying Time	3.0		hr
Suggested Max Moisture	0.050 - 0.13		%
Suggested Max Regrind	20		%
Rear Temperature	265 - 285		°C
Middle Temperature	270 - 295		°C
Front Temperature	275 - 285		°C
Processing (Melt) Temp	260 - 300		°C
Mold Temperature	60 - 100		°C
Injection Pressure	71.5		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		

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

