

PENTAMID AB GV60 H schwarz

Polyamide 66/6 Copolymer

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66+6, 60% glass fiber reinforced

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 60% filler by weight		
Additive		heat stabilizer		
Features		Rigidity, high		
		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.64	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.35	--	%	ISO 294-4
Flow direction	0.20	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	3.6	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.0	--	%	ISO 62
Viscosity Number	140	--	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	17500	13500	MPa	ISO 527-2/1
Tensile Stress (Break)	235	170	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.0	%	ISO 527-2
Flexural Modulus	15000	--	MPa	ISO 178
Flexural Stress	350	--	MPa	ISO 178
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)	90	100	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, not annealed	255	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature (DSC)	255	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	--		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: PA66+6, MHRC, 14-180 N, GF60The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

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ISO Description: PA66+6, MHRC, 14-180 N, GF60Unnotched 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	0.050	%	
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	80.0	MPa	
Holding Pressure	52.0	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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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



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