

PENTAMID A GV50 H Schwarz

Polyamide 66
PENTAC Polymer GmbH

Message:
Normal viscosity, heat stabilised polyamide 66, 50% glass fiber reinforced

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Additive		Heat Stabilizer		
Features		Good Stiffness		
		Heat Stabilized		
Uses		Handles		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.56	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.40	--	%	
Flow	0.25	--	%	
Water Absorption				ISO 62
Saturation, 23°C	4.0	--	%	
Equilibrium, 23°C, 50% RH	1.2	--	%	
Viscosity Number	140	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 961/30)	260	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15500	12600	MPa	ISO 527-2/1
Tensile Stress (Break)	220	140	MPa	ISO 527-2
Tensile Strain (Break)	2.4	3.2	%	ISO 527-2
Flexural Modulus	14000	--	MPa	ISO 178
Flexural Stress	350	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	17	20	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, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	250	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (1.00 mm)	34	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80	--		IEC 60250
Comparative Tracking Index	475	--	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	PA66, MHRC, 14-160, GF50	PA66, MHRC, 14-160, GF50		ISO 1874
Injection	Dry	Unit		
Drying Temperature	80.0		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.070		%	
Suggested Max Regrind	20		%	
Rear Temperature	275 to 300		°C	
Middle Temperature	290 to 305		°C	
Front Temperature	290 to 300		°C	
Processing (Melt) Temp	295		°C	
Mold Temperature	80.0		°C	
Injection Pressure	90.0		MPa	
Holding Pressure	54.0		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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