PENTAMID A GV50 H natur

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	Natural Color			
Forms	Pellets			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.55	--	g/cm³	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	--	cm³/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)	225	145	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.5	%	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				ISO 179/1eA
-30°C	16	--	kJ/m²	
23°C	18	21	kJ/m²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	85	--	kJ/m²	
23°C	100	100	kJ/m²	
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)	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	--		
3.20 mm	HB	--		
Additional Information	**Dry**	**Conditioned**		**Test Method**
ISO Type	PA66, MHR, 14-160, GF50	PA66, MHR, 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			

Recommended distributors for this material

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