PENTAMID A GV30 H LS natural

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66, 30% glass fiber reinforced

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight			
Additive	heat stabilizer			
Features	Laser marking Thermal Stability			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Natural color			
Forms	Particle			
Processing Method	Injection molding			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.36	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.70	--	%	ISO 294-4
Flow	0.40	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	5.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.6	--	%	ISO 62
Viscosity Number	140	--	cm³/g	ISO 307
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	10000	7500	MPa	ISO 527-2/1
Tensile Stress (Break)	190	130	MPa	ISO 527-2/5
Tensile Strain (Break)	3.5	5.0	%	ISO 527-2/5
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	13	15	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	85	95	kJ/m²	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	240	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3

Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	35	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.80	--		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**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	PA66, MHR, 14-100, GF30 X	--		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	270 - 290		°C	
Middle Temperature	275 - 300		°C	
Front Temperature	280 - 290		°C	
Processing (Melt) Temp	270 - 300		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	78.0		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			

Recommended distributors for this material

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