PENTAMID A GV35 H natur

Polyamide 66

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66, 35% glass fiber reinforced

General Information				
Filler / Reinforcement	Glass fiber reinforced material, 35% filler by weight			
Additive	heat stabilizer			
Features	Ultra high toughness Rigid, good Thermal Stability			
Uses	Shell			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Natural color			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.41	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	0.60	--	%	ISO 294-4
Flow direction	0.35	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	5.0	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.5	--	%	ISO 62
Viscosity Number	140	--	cm³/g	ISO 307
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 961/30)	250	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	11000	8600	MPa	ISO 527-2/1
Tensile Stress (Break)	195	140	MPa	ISO 527-2
Tensile Strain (Break)	3.0	4.0	%	ISO 527-2
Flexural Modulus	9400	--	MPa	ISO 178
Flexural Stress	260	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	14	19	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	90	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	250	--	°C	ISO 75-2/A
Melting Temperature (DSC)	260	--	°C	ISO 3146

Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	--		IEC 60250
Comparative Tracking Index	500	--	V	IEC 60112

Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94

Additional Information
干燥 ISO Description: PA66, MHR, 14-110 N, GF35The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.
调节后的 ISO Description: PA66, MHR, 14-110 N, GF35

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.090	%
Suggested Max Regrind	20	%
Rear Temperature	265 - 290	°C
Middle Temperature	280 - 295	°C
Front Temperature	280 - 290	°C
Processing (Melt) Temp	285	°C
Mold Temperature	80.0	°C
Injection Pressure	81.0	MPa
Holding Pressure	48.6	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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