

PENTAMID AHT GV25 H1 non-colored

Polyamide 46

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 4.6,easy flow, 25% glass fiber reinforced

General Information				
Filler / Reinforcement		Glass fiber reinforced material, 25% filler by weight		
Additive		heat stabilizer		
Features		Good liquidity		
		Oil resistance		
		Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturated, 23°C	6.8	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.8	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7000	4900	MPa	ISO 527-2/1
Tensile Stress (Break)	160	90.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	8.0	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	--	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	65	kJ/m ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	275	--	°C	ISO 75-2/B
1.8 MPa, not annealed	250	--	°C	ISO 75-2/A
Melting Temperature	285	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	75	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.50	--		IEC 60250

Comparative Tracking Index	450	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.2 mm)	HB	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA46, MHRC, 18-070, GF25	--		ISO 1874
Injection	Dry	Unit		
Drying Temperature	90		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.080 - 0.16		%	
Suggested Max Regrind	20		%	
Rear Temperature	295 - 320		°C	
Middle Temperature	305 - 330		°C	
Front Temperature	310 - 320		°C	
Processing (Melt) Temp	305 - 325		°C	
Mold Temperature	80 - 120		°C	
Injection Pressure	80.0		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			

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