PENTAMID AHT GV30 H TF15 black

Polyamide 46

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 4.6, 30% glass fiber reinforced, PTFE modified

General Information	
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight
Additive	PTFE lubricant (15%) heat stabilizer
Features	Thermal Stability Lubrication
Agency Ratings	EC 1907/2006 (REACH)
Appearance	Black
Forms	Particle
Processing Method	Injection molding

Physical	Dry	Conditioned	Unit	Test Method
Density	1.51	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	0.75	--	%	ISO 294-4
Flow	0.55	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	6.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	1.4	--	%	ISO 62
Viscosity Number	140	--	cm³/g	ISO 307

Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8600	5700	MPa	ISO 527-2/1
Tensile Stress (Break)	150	100	MPa	ISO 527-2/5
Tensile Strain (Break)	3.0	6.0	%	ISO 527-2/5

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	12	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	48	65	kJ/m²	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	265	--	°C	ISO 75-2/A
Melting Temperature	285	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	32	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30	--		IEC 60250
Comparative Tracking Index	300	--	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, MHRCS, 15-090 N, GF30+X15			ISO 1874
Injection	Dry	Unit		
Drying Temperature	90		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.070 - 0.15		%	
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	85.0		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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