PENTAMID AHT GV30 H1 schwarz

Polyamide 46

PENTAC Polymer GmbH

Message:

Normal viscosity, high heat stabilised polyamide 4.6, easy flow, 30% glass fiber reinforced

General Information				
Filler / Reinforcement	Glass Fiber,30% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Flow Heat Stabilized			
Uses	Automotive Under the Hood			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Pellets			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.41	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.60	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
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	10500	6150	MPa	ISO 527-2/1
Tensile Stress (Break)	200	110	MPa	ISO 527-2
Tensile Strain (Break)	3.7	6.8	%	ISO 527-2
Flexural Modulus	8800	--	MPa	ISO 178
Flexural Stress	250	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	11	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	75	85	kJ/m²	ISO 179/1eU
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**

Heat Deflection Temperature				
0.45 MPa, Unannealed	290	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	290	--	°C	ISO 75-2/A
Melting Temperature	295	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Electric Strength (1.00 mm)	28	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	--		IEC 60250
Comparative Tracking Index	275	--	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	PA46, MHRC, 16-110, GF30	PA46, MHRC, 16-110, GF30		ISO 1874
Injection	Dry	Unit		
Drying Temperature	90.0		°C	
Drying Time	4.0		hr	
Suggested Max Moisture	0.11		%	
Suggested Max Regrind	20		%	
Rear Temperature	295 to 320		°C	
Middle Temperature	310 to 325		°C	
Front Temperature	310 to 320		°C	
Processing (Melt) Temp	315		°C	
Mold Temperature	100		°C	
Injection Pressure	85.0		MPa	
Holding Pressure	51.0		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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China


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