

PENTAMID AHT GV30 H1 ungefärbt

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)		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.41	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.5	--	%	
Equilibrium, 23°C, 50% RH	2.0	--	%	
Viscosity Number	140	--	cm ³ /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	115	MPa	ISO 527-2
Tensile Strain (Break)	4.0	7.0	%	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)	12	22	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	80	90	kJ/m ²	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)	30	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	--		IEC 60250
Comparative Tracking Index	300	--	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, MHR, 16-110, GF30	PA46, MHR, 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			

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT