

PENTAMID AHT GV30 H RC schwarz

Polyamide 46
PENTAC Polymer GmbH

Message:
Normal viscosity, heat stabilised polyamide 4.6, easy flow, 30% glass fiber reinforced, Recompound

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Recycled Content		Yes		
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/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	1.0	--	%	
Flow	0.65	--	%	
Water Absorption				ISO 62
Saturation, 23°C	7.0	--	%	
Equilibrium, 23°C, 50% RH	1.8	--	%	
Viscosity Number	130	--	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	8900	5750	MPa	ISO 527-2/1
Tensile Stress (Break)	180	110	MPa	ISO 527-2
Tensile Strain (Break)	4.0	8.0	%	ISO 527-2
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	65	80	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	275	--	°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	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, 14-090, GF30	PA46, MHRC, 14-090, 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			

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