

PENTAMID AHT MC30 H ungefärbt

Polyamide 46

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 4.6, easy flow, 30% special mineral reinforced

General Information			
Filler / Reinforcement	Mineral filler, 30% filler by weight		
Additive	heat stabilizer		
Features	Good liquidity		
	Thermal Stability		
Uses	Parts under the hood of a car		
Agency Ratings	EC 1907/2006 (REACH)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Vertical flow direction	0.75	%	ISO 294-4
Flow direction	0.75	%	ISO 294-4
Water Absorption			ISO 62
Saturated, 23°C	6.8	%	ISO 62
Equilibrium, 23°C, 50% RH	2.4	%	ISO 62
Viscosity Number	140	cm ³ /g	ISO 307
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 961/30)	270	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	11500	MPa	ISO 527-2/1
Tensile Stress (Break)	100	MPa	ISO 527-2
Tensile Strain (Break)	2.3	%	ISO 527-2
Flexural Modulus	9600	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	30	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	285	°C	ISO 75-2/B
1.8 MPa, not annealed	280	°C	ISO 75-2/A
Melting Temperature (DSC)	295	°C	ISO 3146

Electrical	Nominal Value	Unit	Test Method
Dielectric Strength (1.00 mm)	29	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.80		IEC 60250
Comparative Tracking Index	300	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (3.20 mm)	HB		UL 94
Additional Information			
ISO Description: PA4.6, MHR, 18-120 N, MD30The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.			
Injection	Nominal Value	Unit	
Drying Temperature	90.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.10	%	
Suggested Max Regrind	20	%	
Rear Temperature	295 - 320	°C	
Middle Temperature	310 - 320	°C	
Front Temperature	310 - 320	°C	
Processing (Melt) Temp	315	°C	
Mold Temperature	90.0	°C	
Injection Pressure	70.0	MPa	
Holding Pressure	38.5	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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