

PENTAMID A E5 H natural

Polyamide 66
PENTAC Polymer GmbH

Message:
Normal viscosity, elastomer modified, heat stabilised polyamide 66

General Information				
Additive		Impact modifier (5%) heat stabilizer		
Features		Impact modification Thermal Stability		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Natural color		
Forms		Particle		
Processing Method		Injection molding		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.10	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Transverse flow	1.6	--	%	ISO 294-4
Flow	1.4	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	7.7	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.6	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1350	MPa	ISO 527-2/1
Tensile Stress (Yield)	70.0	55.0	MPa	ISO 527-2/50
Tensile Strain				
Yield	4.5	15	%	ISO 527-2/50
Fracture	> 20	100	%	ISO 527-2/5
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	15	--	kJ/m ²	ISO 179/1eA
23°C	18	30	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)				ISO 179/1eU
No Break	No Break	No Break		
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, not annealed	190	--	°C	ISO 75-2/B
1.8 MPa, not annealed	75.0	--	°C	ISO 75-2/A
Melting Temperature	260	--	°C	ISO 11357-3
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength	32	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.40	--		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.6 mm	HB	--		UL 94
3.2 mm	HB	--		UL 94
Additional Information	Dry	Conditioned		Test Method
ISO Shortname	PA66-I, MHR, 14-030 N	--		ISO 1874
Injection	Dry	Unit		
Drying Temperature	80		°C	
Drying Time	3.0		hr	
Suggested Max Moisture	0.080 - 0.16		%	
Suggested Max Regrind	20		%	
Rear Temperature	260 - 280		°C	
Middle Temperature	265 - 290		°C	
Front Temperature	270 - 280		°C	
Processing (Melt) Temp	260 - 290		°C	
Mold Temperature	60 - 100		°C	
Injection Pressure	62.5		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			

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