

PENTAMID AB E5 H natur

Polyamide 66/6 Copolymer

PENTAC Polymer GmbH

Message:

Normal viscosity, heat stabilised polyamide 66+6, easy flow, good surfaces, impact modified

General Information				
Additive		Impact modifier heat stabilizer		
Features		Impact modification Impact resistance, good Good liquidity Thermal Stability Excellent appearance		
Uses		Safety equipment Sporting goods		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Natural color		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.3	--	%	ISO 294-4
Flow direction	1.3	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	8.2	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.6	--	%	ISO 62
Viscosity Number	140	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	130	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2550	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	60.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	20	%	ISO 527-2
Flexural Modulus	2400	--	MPa	ISO 178
Flexural Stress	95.0	--	MPa	ISO 178

Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	20	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	175	--	°C	ISO 75-2/B
1.8 MPa, not annealed	60.0	--	°C	ISO 75-2/A
Melting Temperature (DSC)	255	--	°C	ISO 3146
Electrical	Dry	Conditioned	Unit	Test Method
Dielectric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.20	--		IEC 60250
Comparative Tracking Index	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating				UL 94
1.60 mm	HB	--		UL 94
3.20 mm	HB	--		UL 94

Additional Information

干燥
ISO Description: PA66+PA6-HI, MHR, 14-030 N
The value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA66+PA6-HI, MHR, 14-030 N

Injection	Dry	Unit
Drying Temperature	80.0	°C
Drying Time	3.0	hr
Suggested Max Moisture	0.14	%
Suggested Max Regrind	20	%
Rear Temperature	250 - 275	°C
Middle Temperature	260 - 280	°C
Front Temperature	265 - 275	°C
Processing (Melt) Temp	270	°C
Mold Temperature	80.0	°C
Injection Pressure	50.0	MPa
Holding Pressure	27.5	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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