

PENTAMID AB L5 H1.2 schwarz

Polyamide 66/6 Copolymer

PENTAC Polymer GmbH

Message:

Normal viscosity, very high heat stabilised polyamide 66+6, easy flow, very easy moulding, impact modified

General Information				
Additive		Impact modifier heat stabilizer		
Features		Impact modification Good formability Good liquidity Thermal Stability Excellent appearance		
Agency Ratings		EC 1907/2006 (REACH)		
Appearance		Black		
Forms		Particle		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	1.4	--	%	ISO 294-4
Flow direction	1.4	--	%	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	142	--	cm ³ /g	ISO 307
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness (H 358/30)	135	--	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2700	1200	MPa	ISO 527-2/1
Tensile Stress (Yield)	65.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	5.0	20	%	ISO 527-2
Flexural Modulus	2550	--	MPa	ISO 178
Flexural Stress	100	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	19	24	kJ/m ²	ISO 179/1eA

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	No Break	--		ISO 179/1eU
23°C	No Break	No Break		ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	180	--	°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)	33	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.30	--		IEC 60250
Comparative Tracking Index	525	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (3.20 mm)	HB	--		UL 94

Additional Information

干燥
ISO Description: PA66+PA6-HI, MHRC, 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, MHRC, 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	265 - 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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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

