PENTAMID B L10 H schwarz

Polyamide 6

PENTAC Polymer GmbH

Message:

Normal viscosity, high impact modified, heat stabilised polyamide 6

General Information				
Additive	Impact modifier heat stabilizer			
Features	Impact modification Low temperature impact resistance Thermal Stability			
Uses	Safety equipment Sporting goods			
Agency Ratings	EC 1907/2006 (REACH)			
Appearance	Black			
Forms	Particle			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.10	--	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Vertical flow direction	2.0	--	%	ISO 294-4
Flow direction	1.6	--	%	ISO 294-4
Water Absorption				ISO 62
Saturated, 23°C	8.9	--	%	ISO 62
Equilibrium, 23°C, 50% RH	2.5	--	%	ISO 62
Viscosity Number	145	--	cm³/g	ISO 307
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Ball Indentation Hardness (H 358/30)	115	--	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	2400	1000	MPa	ISO 527-2/1
Tensile Stress (Yield)	65.0	45.0	MPa	ISO 527-2
Tensile Strain (Yield)	8.0	22	%	ISO 527-2
Flexural Modulus	2200	--	MPa	ISO 178
Flexural Stress	90.0	--	MPa	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C)	18	55	kJ/m²	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)	222	--	°C	ISO 3146
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Dielectric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.50	--		IEC 60250
Comparative Tracking Index	575	--	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: PA6-HI, MHRC, 14-020 NThe value listed as Melting Point, ISO 3146, was tested in accordance with ISO 11357.

调节后的
ISO Description: PA6-HI, MHRC, 14-020 N

Injection	Dry	Unit
Drying Temperature	70.0	°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	55.0	MPa
Holding Pressure	33.0	MPa
Screw L/D Ratio	20.0:1.0	
Screw Compression Ratio	2.2:1.0 to 2.8:1.0	

Recommended distributors for this material

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