

LAMIGAMID® 307

Polyamide 6

Schwartz Technical Plastic

Message:

Applications:

Slippers

inserts for coupling boxes

General Information				
Additive	heat stabilizer			
Features	Thermal Stability			
	Elastic			
Uses	Industrial application			
Forms	Particle			
Processing Method	Casting			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.13	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
23°C, 24 hr	2.2	--	%	ISO 62
Saturated, 23°C	7.0	--	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Ball Indentation Hardness	130	115	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3000	2300	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	65.0	45.0	MPa	ISO 527-2
Fracture	100	40.0	MPa	ISO 527-2
Tensile Strain (Break)	> 25	--	%	ISO 527-2
Flexural Modulus	2500	2000	MPa	ISO 178
Compressive Stress				ISO 604
20% strain	67.0	--	MPa	ISO 604
10% strain	46.0	--	MPa	ISO 604
5% strain	29.0	--	MPa	ISO 604
Coefficient of Friction				ASTM D1894
With steel-dynamic	0.040	0.080		ASTM D1894
With steel-static	0.31	--		ASTM D1894
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	> 6.0	> 15	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break	No Break		ISO 180

Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, not annealed	200	--	°C	ISO 75-2/B
1.8 MPa, not annealed	110	--	°C	ISO 75-2/A
Melting Temperature (DSC)	215	--	°C	ISO 3146
CLTE - Flow (20 to 100°C)	7.0E-5 - 8.0E-5	--	cm/cm/°C	ISO 11359-2
Specific Heat	1670	--	J/kg/°C	ASTM C351
Thermal Conductivity	0.25	--	W/m/K	ISO 8302
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Dielectric Strength	50	20	kV/mm	IEC 60243-1
Dielectric Constant	3.70	--		IEC 60250
Dissipation Factor	0.030	--		IEC 60250
Additional Information				

干燥

Creep Rate Stress, DIN 53444, 1% Elongation: > 10 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: > 15 N/mm² Friction Wear: 0.09 μm/Km Penetration Resistance, DIN 53482: 1E15 ohm-cm Creepage/leakage Resistance: KA3c Thermal Expansion: 0.1 %/10°C Safe Temperature Range, short periods: 180°C Safe Temperature Range, permanent: -40°C

调节后的

Creep Rate Stress, DIN 53444, 1% Elongation: > 4 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: > 8 N/mm² Friction Wear: 0.09 μm/Km Penetration Resistance, DIN 53482: 1E12 ohm-cm Creepage/leakage Resistance: KA3b Thermal Expansion: 0.1 %/10°C Safe Temperature Range, short periods: 180°C Safe Temperature Range, permanent: 120°C

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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



WECHAT