LAMIGAMID® 317

Polyamide 6

Schwartz Technical Plastic

Message:

Applications:
Coupling Parts
Sealing Rings
Bearings

General Information				
Additive	heat stabilizer			
Features	Thermal Stability High hardness Elastic			
Uses	Machine/mechanical parts Sealing device Bearing			
Forms	Particle			
Processing Method	Casting			
Physical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Density	1.15	--	g/cm³	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	160	130	MPa	ISO 2039-1
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	3500	2800	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	60.0	MPa	ISO 527-2
Fracture	130	50.0	MPa	ISO 527-2
Tensile Strain (Break)	> 20	--	%	ISO 527-2
Flexural Modulus	3400	2500	MPa	ISO 178
Compressive Stress				ISO 604
20% strain	91.0	--	MPa	ISO 604
10% strain	68.0	--	MPa	ISO 604
5% strain	48.0	--	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	> 2.7	> 12	kJ/m²	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	210	--	°C	ISO 75-2/B
1.8 MPa, not annealed	120	--	°C	ISO 75-2/A
Melting Temperature (DSC)	220	--	°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: >15 N/mm²Creep Rate Stress, DIN 53444, 2% Elongation: >20 N/mm²Friction Wear: 0.10 µm/KmPenetration Resistance, DIN 53482: 1E15 ohm-cmCreepage/leakage Resistance: KA3cThermal Expension: 0.1 %/10°CSafe Temperature Range, short periods: 180°CSafe Temperature Range, permanent: -40°C

调节后的

Creep Rate Stress, DIN 53444, 1% Elongation: >8 N/mm²Creep Rate Stress, DIN 53444, 2% Elongation: >12 N/mm²Friction Wear: 0.10 µm/KmPenetration Resistance, DIN 53482: 1E12 ohm-cmCreepage/leakage Resistance: KA3bThermal Expension: 0.1 %/10°CSafe Temperature Range, short periods: 180°CSafe Temperature Range, permanent: 120°C

Recommended distributors for this material

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