

OPTAMID® PA 6 G

Polyamide 6

Schwartz Technical Plastic

Message:

Applications:

Deflection rope sheaves for elevators

General Information				
Uses	Machine/mechanical parts			
Forms	Particle			
Processing Method	Casting			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.15	--	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	150	120	MPa	ISO 2039-1
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3500	2700	MPa	ISO 527-2
Tensile Stress				ISO 527-2
Yield	80.0	60.0	MPa	ISO 527-2
Fracture	130	55.0	MPa	ISO 527-2
Tensile Strain (Break)	> 25	--	%	ISO 527-2
Flexural Modulus	3100	2400	MPa	ISO 178
Coefficient of Friction				ASTM D1894
With steel-dynamic	0.040	0.080		ASTM D1894
With steel-static	0.35	0.42		ASTM D1894
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact	> 3.7	> 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	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: >20 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >22 N/mm² Friction Wear: 0.09 μ m/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: >11 N/mm² Creep Rate Stress, DIN 53444, 2% Elongation: >15 N/mm² Friction Wear: 0.09 μ m/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 Tensile Strain at Break, ISO 527-1-2: > 25% Notched Izod Impact, ISO 180: >15 kJ/m²

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

