

LAMIGAMID® 400

Polyamide 6 Alloy

Schwartz Technical Plastic

Message:

Applications:

Gear-Wheels

Chain-Wheels

Hydrocyclones

Housings

Outrigger Floats

General Information			
Uses	Wheels		
	Gear		
	Shell		
Forms	Particle		
Processing Method	Casting		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Water Absorption (23°C, 24 hr)	2.3	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	< 100	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	> 1300	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	45.0 - 60.0	MPa	ISO 527-2
Fracture	< 50.0	MPa	ISO 527-2
Tensile Strain (Break)	> 45	%	ISO 527-2
Flexural Modulus	< 2000	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	> 10	kJ/m ²	ISO 180
Unnotched Izod Impact Strength	No Break		ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	180 - 195	°C	ISO 75-2/B
Melting Temperature	210 - 218	°C	
CLTE - Flow (20 to 100°C)	1.0E-4 - 1.5E-4	cm/cm/°C	ISO 11359-2
Additional Information			
Safe Temperature Range, permanent: -40° to 80°C			

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