

Polimersan Plastics POLIKES® (PA 6 G) Cast Polyamide

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Cast

Material Notes:

POLIKES® PA6 G (CAST POLYAMIDE) is a plastic with high physical, electrical and chemical resistance. Its resistance is high especially against strokes and loads. Its temperature resistance is high, whereas corrosion coefficient is low. But, because of its water absorption property, it is not recommended at humid environments(%6-7).PROPERTIES OF POLIKES®:100°C Service TemperatureLow Corrosion

CoefficientVery High Pressing ResistanceHigh HardnessHigh Resistance To StrokesResistance To HeatResistance To Chemical SubstancesLower Water Absorption compared to PA 6GENERAL USAGE AREAS OF

POLIKES®:SledgesWheelsRollsGearsBearingsBobbinsHoopsCorrosion PlatesFood Industry PartsChemical Industry PartsPaper Industry PartsTextile Industry PartsPress Industry Parts Information provided by Polimersan Polimer Kimya San.Tic.Ltd.Sti.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polimersan-Plastics-POLIKES-PA-6-G-Cast-Polyamide.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ISO.1183 DN.53479
Water Absorption	6.0 - 7.0 %	6.0 - 7.0 %	ISO.62 DN.53495

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	88	88	ISO.2039-2
Hardness, Shore D	85	85	DN.53505
Ball Indentation Hardness	110 - 160 MPa	16000 - 23200 psi	ISO.2039-2
Tensile Strength at Break	88.0 - 90.0 MPa	12800 - 13100 psi	ISO.527 DN.53455
Tensile Strength, Yield	55.0 - 85.0 MPa	7980 - 12300 psi	ISO.527 DN.53455
Elongation at Break	10 - 40 %	10 - 40 %	ISO.527 DN.53455
Modulus of Elasticity	3.90 - 4.20 GPa	566 - 609 ksi	ISO.178 DN.53452

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 - 90.0 µm/m-°C	44.4 - 50.0 µin/in-°F	DN.53752
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	190 °C	374 °F	
Maximum Service Temperature, Air	100 °C	212 °F	ISO.75 DN.53461

Electrical Properties	Metric	English	Comments
Volume Resistivity			ISO.167 DN.53482

Electrical Properties	$\geq 1.00 \times 10^{15}$ ohm-cm Metric	$\geq 1.00 \times 10^{15}$ ohm-cm English	Comments
Surface Resistance	$\geq 1.00 \times 10^{12}$ ohm	$\geq 1.00 \times 10^{12}$ ohm	ISO.167 DN.53482
Dielectric Strength	80.0 - 100 kV/mm	2030 - 2540 kV/in	ISO.243 DN.53481

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