

BASF Gusspolyamid® Nylon 6 (Dry As Molded)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Processed by anionic polymerization of caprolactam in the presence of a catalyst and activator. Uses include semi-finished products and containers (e.g. heating oil tanks). Data was collected by ISO methods and provided by BASF.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BASF-Gusspolyamid-Nylon-6-Dry-As-Molded.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	
Water Absorption	8.0 %	8.0 %	
Moisture Absorption at Equilibrium	2.8 %	2.8 %	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	95.0 MPa	13800 psi	
Elongation at Break	50 %	50 %	
Elongation at Yield	4.0 %	4.0 %	
Tensile Modulus	4.00 GPa	580 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 μm/m-°C	38.9 μin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	220 °C	428 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	
Dielectric Constant	3.7	3.7	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.030	0.030	
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	

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