

EMS-Grivory Grivory® XE 3982 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product description: Grilamid XE 3982 is a highly flexible extrusion grade, based on Polyamide 12 with following main attributes: High flexibilityLow plasticizer migration (low blooming)Very good chemical resistanceGood light and heat stabilityGood dimensional stability

Application examples: Flexible hoses and profiles, pneumatic tubes.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-3982-PA12.php

Physical Properties	Metric	English	Comments
Density	0.990 g/cc	0.0358 lb/in³	ISO 1183
Water Absorption	1.2 %	1.2 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	ISO 62
Linear Mold Shrinkage, Flow	0.0060 cm/cm	0.0060 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	53	53	conditioned, 15s; ISO 868
Ball Indentation Hardness	20.0 MPa	2900 psi	conditioned; ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Tensile Stress	18.0 MPa	2610 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
	18.0 MPa	2610 psi	dry; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.195 GPa	28.3 ksi	conditioned; ISO 527-1/-2
	0.195 GPa	28.3 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	NB Metric	NB English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	NB	NB	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	0.900 J/cm²	4.28 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.00 J/cm²	4.76 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	160 µm/m-°C	88.9 µin/in-°F	ISO 11359-1/-2
Melting Point	170 °C	338 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	39.0 kV/mm	991 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Electricals & Electronics	Cables & Tubes	
Form	Granules	

Industry & Consumer goods Descriptive Properties	Hydraulics & Pneumatics Value	Comments
Processing	Other Extrusion	
Product Attributes	Flexible	
Special Characteristics	High impact or impact modified	
	Improved UV resistance (outdoor use)	

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