

EMS-Grivory Grivory® XE 4188 black 9992 PA612

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Product description: Grilamid XE 4188 black 9992 is a high viscosity, unreinforced, impact resistant polyamide 612 (PA612) extrusion grade. Unique features of Grilamid XE 4188 black 9992 are: High viscosity Impact resistant Good chemical and zinc-chloride resistance Good hydrolysis resistance Low water absorption Heat and UV resistant Easy processing Application examples: Grilamid XE 4188 black 9992 has been developed for rigid automotive and industrial tubing such as found in fuel, coolant fluid, oil or hydraulic systems. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4188-black-9992-PA612.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	2.7 %	2.7 %	ISO 62
Moisture Absorption	1.20 %	1.20 %	ISO 62
Linear Mold Shrinkage, Flow	0.030 cm/cm	0.030 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	70.0 MPa	10200 psi	conditioned; ISO 2039-1
	100 MPa	14500 psi	dry; ISO 2039-1
Tensile Strength, Yield	45.0 MPa	6530 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
	<= 50 %	<= 50 %	dry; ISO 527-1/-2
Elongation at Yield	5.0 %	5.0 %	dry; ISO 527-1/-2
	20 %	20 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.30 GPa	189 ksi	conditioned; ISO 527-1/-2
	1.80 GPa	261 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 ^{9/1eU}
	@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	5.00 J/cm ²	23.8 ft-lb/in ²	dry; ISO 179/1eA
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	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	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
Melting Point	218 °C	424 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+10 ohm-cm	1.00e+10 ohm-cm	dry; IEC 60093
	1.00e+10 ohm-cm	1.00e+10 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	38.0 kV/mm	965 kV/in	dry; IEC 60243-1
	38.0 kV/mm	965 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	
	Compressed air systems	
	Fuel systems	

Descriptive Properties	Value	Comments
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
Product Attributes	High viscosity	
	Hydrolysis resistant	
	Improved alcohol resistance	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	

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