

EMS-Grivory Grivory® XE 4208 black 9992 PA612-I

Category : Polymer , Thermoplastic , Nylon , Nylon 612

Material Notes:

Product description: Grilamid XE 4208 black 9992 is a semiflexible high viscosity, plasticized, high impact and highly heat resistant polyamide 612 (PA612) extrusion grade. Unique properties of Grilamid XE 4208 black 9992 are: High strength, high burst pressure in tube form High heat resistance Significantly lower water absorption compared to standard polyamides Good chemical and hydrolysis resistance Zinc chloride resistance Low density Easy processing Application examples: Grilamid XE 4208 black 9992 was developed for media lines in passenger cars and trucks. Thanks to its excellent heat resistance it is particularly suitable for diesel, air brake, cooling, oil and hydraulic tubes. The product is not recommended for direct permanent contact with gasoline. One particular application is the use as outer layer of coextruded ECOSYS tubes. ECOSYS (EMS Cooling System) is the designation of multi-layered tubes developed by EMS-GRIVORY for automotive heating and cooling systems. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-XE-4208-black-9992-PA612-I.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in ³	ISO 1183
Water Absorption	2.0 %	2.0 %	ISO 62
Moisture Absorption	0.800 %	0.800 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	40.0 MPa	5800 psi	conditioned; ISO 2039-1
	55.0 MPa	7980 psi	dry; ISO 2039-1
Tensile Stress	30.0 MPa	4350 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Elongation at Break	35.0 MPa	5080 psi	dry; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Tensile Modulus	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Charpy Impact Unnotched	0.640 GPa	92.8 ksi	conditioned; ISO 527-1/-2
	0.920 GPa	133 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	

Mechanical Properties	Metric @ Temperature 30.0 °C	English @ Temperature 86.0 °F	dry; ISO 179/1eU Comments
	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
	1.60 J/cm ²	7.61 ft-lb/in ²	dry; ISO 179/1eU
	@ Temperature 30.0 °C	@ Temperature 86.0 °F	
	1.60 J/cm ²	7.61 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	230 µm/m-°C	128 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
Melting Point	213 °C	415 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	100 °C	212 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

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	37.0 kV/mm	940 kV/in	dry; IEC 60243-1
	37.0 kV/mm	940 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Automotive	Air intake sytems	
	Automotive electr. and electronics, lighting	

Descriptive Properties	Value	Comments
	Compressed air systems	
	Cooling and climate control	
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
	Profile Extrusion	
Product Attributes	High viscosity	
	Hydrolysis resistant	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

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