

EMS-Grivory Grivory® TR XE 4139 black 9231 PA*

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Product description: Grilamid XE 4139 black 9231 is an amorphous thermoplastic polyamide based on aliphatic, cycloaliphatic and aromatic monomers. Grilamid XE 4139 black 9231 contains a processing aid to improve the flow- and demolding properties and is stabilized against heat aging. Grilamid XE 4139 black 9231 offers a variety of interesting properties such as: very high stiffness good impact performance dark black color high surface hardness and gloss chemical resistance especially vs. oil, grease and fuels stress cracking resistance improved heat and weathering resistance easy processing Grilamid XE 4139 black 9231 is suitable for production of optical and technically demanding parts in the application fields of: Electrical / Electronics Engineering, Pneumatics Agriculture Domestic appliances Automotive Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TR-XE-4139-black-9231-PA.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	160 MPa	23200 psi	dry; ISO 2039-1
	160 MPa	23200 psi	conditioned; ISO 2039-1
Tensile Strength, Yield	95.0 MPa	13800 psi	conditioned; ISO 527-1/-2
	105 MPa	15200 psi	dry; ISO 527-1/-2
Elongation at Break	25 %	25 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	6.0 %	6.0 %	conditioned; ISO 527-1/-2
	7.0 %	7.0 %	dry; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	conditioned; ISO 527-1/-2
	2.80 GPa	406 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB @Temperature 30.0 °C	NB @Temperature 86.0 °F	dry; ISO 179/1eU
	NB @Temperature 30.0 °C	NB @Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	1.10 J/cm ²	5.23 ft-lb/in ²	dry; ISO 179/1eA
	1.20 J/cm ²	5.71 ft-lb/in ²	conditioned; ISO 179/1eA
	1.10 J/cm ² @Temperature 30.0 °C	5.23 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	1.20 J/cm ² @Temperature 30.0 °C	5.71 ft-lb/in ² @Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	60.0 µm/m-°C	33.3 µin/in-°F	ISO 11359-1/-2
Transformation Temperature, Tg	160 °C	320 °F	10°C/min; ISO 11357-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	27.0 kV/mm	686 kV/in	dry; IEC 60243-1
	27.0 kV/mm	686 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Additives	Release agent	

Descriptive Properties	Value systems	Comments
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Sanitary, water and gas supply	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Barrier Properties	
	Co Polyamide	
	Hydrolysis resistant	
	Partially aromatic Polyamide	
Special Characteristics	Transparent Polyamide	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	
	Transparent	

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