

EMS-Grivory Grivory® L 20 HL black 9563 PA12

Category : Polymer , Thermoplastic , Nylon , Nylon 12

Material Notes:

Product Description: Grilamid L 20 HL black 9563 is a, medium viscosity extrusion grade, based on Polyamide 12 (PA12). Grilamid L20 HL black 9563 has been especially developed for external cable sheathing applications, it is UV-stabilized, heat stabilized as it is resistant to termites. The special features of Grilamid L 20 HL black 9563 are: Maximum UV-resistanceHeat stabilityResistant to termitesGood chemical resistanceGood resistance to ilHigh surface quality High abrasion resistanceGood dimensional stabilityEasy to processLow density, low weightApplication examples: Grilamid L 20 HL black 9563 is suitable for the outer sheathing layer of telecommunication cables.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-L-20-HL-black-9563-PA12.php

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Water Absorption	1.5 %	1.5 %	ISO 62
Moisture Absorption	0.700 %	0.700 %	ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	70	70	conditioned, 15s; ISO 868
Tensile Strength at Break	50.0 MPa	7250 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	45.0 MPa	6530 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
	12 %	12 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.10 GPa	160 ksi	conditioned; ISO 527-1/-2
	1.40 GPa	203 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-1/-2
Melting Point	178 °C	352 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	90.0 - 110 °C	194 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	115 °C	239 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	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	32.0 kV/mm	813 kV/in	conditioned; IEC 60243-1
Comparative Tracking Index	550 V	550 V	conditioned; IEC 60112

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

Descriptive Properties	Hydraulic systems Value	Comments
	Powertrain and Chassis	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
	Mechanical Engineering	
	Tools & Accessories	
Processing	Other Extrusion	
Special Characteristics	Improved heat resistance	
	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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