

EMS-Grivory Grivory® 2S 25 W 20 HL X nat PA610

Category : Polymer , Renewable/Recycled Polymer , Thermoplastic , Nylon , Nylon 610

Material Notes:

Product Description: Grilamid 2S 25 W 20 HL X natural is a semi-flexible high viscosity heat and UV stabilized, impact modified and plasticized Polyamide 610, espacilly suitable for extrusion applications. This PA610 based product is to a large extent based on renewable raw materials and its eco-profile is very favourable when compared to similar products based on crude oil. The main feature of Grilamid 2S 25 W 20 HL X natural: High impact strength, even at low temperaturesHigh heat resistanceGood chemical resistanceEasy processing

Application examples: Preferred applications are tubes in the fields of Automotive and Industry, whereas the product is not recommended for direct permanent contact with gasoline.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-2S-25-W-20-HL-X-nat-PA610.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in³	ISO 1183
Water Absorption	3.0 %	3.0 %	ISO 62
Moisture Absorption	0.500 %	0.500 %	ISO 62
Linear Mold Shrinkage, Flow	0.018 cm/cm	0.018 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.013 cm/cm	0.013 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	35.0 MPa	5080 psi	conditioned; ISO 2039-1
	50.0 MPa	7250 psi	dry; ISO 2039-1
Tensile Strength at Break	50.0 MPa	7250 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.450 GPa	65.3 ksi	conditioned; ISO 527-1/-2
	0.750 GPa	109 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	NB	NB	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	1.50 J/cm²	7.14 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.50 J/cm²	7.14 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	200 µm/m-°C	111 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	150 µm/m-°C	83.3 µin/in-°F	ISO 11359-1/-2
Melting Point	215 °C	419 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	130 °C	266 °F	long term; EMS
	160 °C	320 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	125 °C	257 °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+11 ohm-cm	1.00e+11 ohm-cm	dry; IEC 60093
	1.00e+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	36.0 kV/mm	914 kV/in	dry; IEC 60243-1
	36.0 kV/mm	914 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	

Descriptive Properties	Value	Comments
	Compressed air systems	
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
	Profile Extrusion	
Product Attributes	Bio based Polyamide	
	Flexible	
	High viscosity	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	
	Improved UV resistance (outdoor use)	
	Light stabilized or stable to light	

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