

EMS-Grivory Grivory® 2S 20 nat PA610

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

Material Notes:

Product Description: Grilamid 2S 20 natural is an unmodified medium viscosity polyamide 610 (PA610), designed for injection molding as well as extrusion. It is characterized by the following product profile: High strength, high burst pressure in tube form To 62% based on renewable raw material Good chemical resistance High strength Ductile, resilient in conditioned stage Moderate water absorption Low density Grilamid 2S 20 natural is suitable for applications at moderate continuous use temperature and without repeated direct exposure to UV radiation. Preferred applications: Injection molded functional parts Bushes, gears Consumer goods Semi-fabricates such as tubes, film, sheet, profiles Sheathing and guides Information provided by EMS Grivory

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ISO 1183
Water Absorption	3.9 %	3.9 %	ISO 62
Moisture Absorption	1.70 %	1.70 %	ISO 62
Linear Mold Shrinkage, Flow	0.013 cm/cm	0.013 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.014 cm/cm	0.014 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	82.0 MPa	11900 psi	conditioned; ISO 2039-1
	128 MPa	18600 psi	dry; ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	conditioned; ISO 527-1/-2
	65.0 MPa	9430 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
	2.20 GPa	319 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	NB	NB	conditioned; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	@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	
Charpy Impact, Notched	0.700 J/cm ²	3.33 ft-lb/in ²	dry; ISO 179/1eA
	1.30 J/cm ²	6.19 ft-lb/in ²	conditioned; ISO 179/1eA
	0.500 J/cm ²	2.38 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.500 J/cm ²	2.38 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	110 µm/m-°C	61.1 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	90.0 µm/m-°C	50.0 µin/in-°F	ISO 11359-1/-2
Melting Point	223 °C	433 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 °C	176 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °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+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	conditioned; IEC 60243-1
	35.0 kV/mm	889 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Tools & Accessories	
Processing	Film Extrusion	
	Other Extrusion	
Product Attributes	Bio based Polyamide	
	High viscosity	

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