

EMS-Grivory Grivory® TSS PA666

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66

Material Notes:

Product description: Grilon TSS is an unreinforced, heat stabilized, normal viscosity PA66 + PA6 injection molding grade. Grilon TSS has the following important properties: Excellent flow behavior High toughness Very good surface finish Easy processing Grilon TSS is used typically for various applications in the automotive-, the electro and the sports & leisure field such as loudspeaker grids, interior casings, chair rollers, handles and levers. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSS-PA666.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 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	45.0 MPa	6530 psi	conditioned; ISO 2039-1
	135 MPa	19600 psi	dry; ISO 2039-1
Tensile Strength at Break	45.0 MPa	6530 psi	dry; ISO 527-1/-2
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	70.0 MPa	10200 psi	dry; ISO 527-1/-2
Elongation at Break	25 %	25 %	dry; ISO 527-1/-2
	25 %	25 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	conditioned; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	15 %	15 %	conditioned; ISO 527-1/-2
Tensile Modulus	0.750 GPa	109 ksi	conditioned; ISO 527-1/-2
	2.70 GPa	392 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	NB Metric	NB English	conditioned; ISO 179/1eU Comments
	NB	NB	
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	NB	NB	
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eA
	0.600 J/cm ²	2.86 ft-lb/in ²	
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	80.0 µm/m-°C	44.4 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	120 µm/m-°C	66.7 µin/in-°F	ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	220 °C	428 °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+11 ohm-cm	1.00e+11 ohm-cm	conditioned; IEC 60093
	1.00e+13 ohm-cm	1.00e+13 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+10 ohm	1.00e+10 ohm	IEC 60093
Dielectric Strength	25.0 kV/mm	635 kV/in	conditioned; IEC 60243-1
	26.0 kV/mm	660 kV/in	dry; IEC 60243-1
Comparative Tracking Index	600 V	600 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Automotive electr. and electronics, lighting	
	Interior	
Electricals & Electronics	Connectors	
	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Product Attributes	Nucleated	

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