

EMS-Grivory Grivory® TSZ 3 PA666

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

Material Notes:

Product description: Grilon TSZ 3 is a heat stabilized, normal viscosity, high impact modified PA66 + PA6 injection molding grade. Grilon TSZ 3 has the following important properties: Excellent toughness Good flow behavior Easy processing Grilon TSZ 3 is used typically for automotive and electro applications such as clips, fixing parts, and cable binders. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSZ-3-PA666.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	7.0 %	7.0 %	ISO 62
Moisture Absorption	2.30 %	2.30 %	ISO 62
Linear Mold Shrinkage, Flow	0.016 cm/cm	0.016 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	45.0 MPa	6530 psi	conditioned; ISO 2039-1
	90.0 MPa	13100 psi	dry; ISO 2039-1
Tensile Stress	30.0 MPa	4350 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Tensile Strength, Yield	40.0 MPa	5800 psi	dry; ISO 527-1/-2
	40.0 MPa	5800 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
	>= 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
	5.0 %	5.0 %	dry; ISO 527-1/-2
Tensile Modulus	0.550 GPa	79.8 ksi	conditioned; ISO 527-1/-2
	1.60 GPa	232 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU

Mechanical Properties	Metric	English	Comments
	NB	NB	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	NB	NB	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	1.50 J/cm ²	7.14 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	1.50 J/cm ²	7.14 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	120 µm/m-°C	66.7 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	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 100 °C	176 - 212 °F	long term; EMS
	180 °C	356 °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+12 ohm-cm	1.00e+12 ohm-cm	conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+11 ohm	1.00e+11 ohm	IEC 60093
Dielectric Strength	30.0 kV/mm	762 kV/in	conditioned; IEC 60243-1
	34.0 kV/mm	864 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	
Electricals & Electronics	Connectors	
Form	Granules	
Industry & Consumer goods	Mechanical Engineering	
	Power transmission	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

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