

EMS-Grivory Grivory® TSGK-30/4 X PA666-(GF+GB)30

Category : Polymer , Thermoplastic , Nylon , Nylon 6/66 , Nylon 66/6 , 30% Glass Fiber Reinforced

Material Notes:

Product description: Grilon TSGK-30 X/4 is a heat stabilized PA 66 + PA 6 injection molding grade with a 30% reinforcement combination (glass fibers and glass beads). Grilon TSGK-30/4 X has the following important properties: Good flow behavior High weld line strength Low warpage Grilon TSGK-30/4 X is used typically for housing elements, relais bearers, axle spindle casings and applications which demand medium level of stiffness and low warpage. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-TSGK-304-X-PA666-GFGB30.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	5.0 %	5.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0030 cm/cm	0.0030 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
Ball Indentation Hardness	80.0 MPa	11600 psi	conditioned; ISO 2039-1
	135 MPa	19600 psi	dry; ISO 2039-1
Tensile Strength at Break	60.0 MPa	8700 psi	conditioned; ISO 527-1/-2
	110 MPa	16000 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	10 %	10 %	conditioned; ISO 527-1/-2
Tensile Modulus	2.10 GPa	305 ksi	conditioned; ISO 527-1/-2
	5.40 GPa	783 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	conditioned; ISO 179/1eU
	3.50 J/cm ² @Temperature 30.0 °C	16.7 ft-lb/in ² @Temperature 86.0 °F	dry; ISO 179/1eU
	3.50 J/cm ²	16.7 ft-lb/in ²	conditioned; ISO 179/1eU

Mechanical Properties	@Temperature 30.0 °C Metric	@Temperature 86.0 °F English	Comments
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA
	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	200 °C	392 °F	short term; EMS
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO 75-1/-2
Deflection Temperature at 8.0 MPa	60.0 °C	140 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Descriptive Properties	Value	Comments
Automotive	Interior	
Electricals & Electronics	Electrical appliances	
Form	Granules	
Industry & Consumer goods	Housewares	
	Mechanical Engineering	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	

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