

EMS-Grivory Grivory® BKZ-30 PA6-GB30

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Bead Filled

Material Notes:

Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-BKZ-30-PA6-GB30.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Water Absorption	8.0 %	8.0 %	ISO 62
Moisture Absorption	2.00 %	2.00 %	ISO 62
Linear Mold Shrinkage, Flow	0.0090 cm/cm	0.0090 in/in	ISO 294-4, 2577
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4, 2577

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	85.0 MPa	12300 psi	conditioned; ISO 2039-1
	115 MPa	16700 psi	dry; ISO 2039-1
Tensile Strength at Break	40.0 MPa	5800 psi	conditioned; ISO 527-1/-2
	65.0 MPa	9430 psi	dry; ISO 527-1/-2
Elongation at Break	15 %	15 %	dry; ISO 527-1/-2
	40 %	40 %	conditioned; ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	conditioned; ISO 527-1/-2
	3.40 GPa	493 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	7.00 J/cm ²	33.3 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	9.00 J/cm ²	42.8 ft-lb/in ²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	dry; ISO 179/1eA
	1.00 J/cm ²	4.76 ft-lb/in ²	conditioned; ISO 179/1eA

Mechanical Properties	Metric	English	Comments
	0.500 J/cm²	2.34 ft-lb/in²	
	@Temperature 30.0 °C	@Temperature 86.0 °F	dry; ISO 179/1eU
	0.800 J/cm²	3.81 ft-lb/in²	
	@Temperature 30.0 °C	@Temperature 86.0 °F	conditioned; ISO 179/1eU

Thermal Properties	Metric	English	Comments
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °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	
	Sports & Leisure	
	Tools & Accessories	
Processing	Injection Molding	
Special Characteristics	High impact or impact modified	

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