

EMS-Grivory Grivory® R 50 H NZ PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Product description: Grilon R 50 H NZ is a high viscosity, unreinforced, heat stabilized, impact modified PA6 extrusion blow molding grade. Grilon R 50 H NZ has the following important properties: Very high melt strengthHigh impact resistance even at low temperaturesVery good weld line strengthProcessable on conventional as well as on 3 D-machinesSuitable for sequential blow molding process in combination with flexible grades Grilon R 50 H NZ is used typically for automotive applications such are air ducts for turbo-chargers, air ducts, oil filler pipes, fuel and oil containers.Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-R-50-H-NZ-PA6.php

Physical Properties	Metric	English	Comments
Density	1.07 g/cc	0.0387 lb/in ³	ISO 1183
Water Absorption	9.0 %	9.0 %	ISO 62
Moisture Absorption	3.00 %	3.00 %	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	30.0 MPa	4350 psi	conditioned; ISO 2039-1
	90.0 MPa	13100 psi	dry; ISO 2039-1
Tensile Stress	25.0 MPa	3630 psi	conditioned; ISO 527-1/-2
	@Strain 50.0 %	@Strain 50.0 %	
Tensile Strength, Yield	50.0 MPa	7250 psi	dry; ISO 527-1/-2
	50.0 MPa	7250 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	0.600 GPa	87.0 ksi	conditioned; ISO 527-1/-2
	1.80 GPa	261 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	
	NB	NB	
Charpy Impact, Notched	9.50 J/cm²	45.2 ft-lb/in²	dry; ISO 179/1eA
	NB	NB	conditioned; ISO 179/1eA
	2.50 J/cm²	11.9 ft-lb/in²	dry; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	
	2.50 J/cm²	11.9 ft-lb/in²	conditioned; ISO 179/1eU
	@Temperature 30.0 °C	@Temperature 86.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	130 µm/m-°C	72.2 µin/in-°F	ISO 11359-1/-2
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	ISO 11359-1/-2
Melting Point	222 °C	432 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	100 - 120 °C	212 - 248 °F	long term; EMS
	180 °C	356 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO 75-1/-2
Flammability, UL94	HB	HB	IEC 60695-11-10

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	conditioned; IEC 60093
	1.00e+14 ohm-cm	1.00e+14 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Comparative Tracking Index	475 V	475 V	conditioned; IEC 60112

Descriptive Properties	Value	Comments
Automotive	Air intake sytems	

	Cooling and climate control	
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Descriptive Properties	Value Hydraulic systems	Comments
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Extrusion - blow molding	
	Other Extrusion	
Special Characteristics	High impact or impact modified	
	Improved heat resistance	

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