

EMS-Grivory Grivory® R 47 HW 10 PA6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Grilon R 47 HW 10 is a flexible, cold impact resistant and heat stabilized polyamide 6 for applications in the extrusion. The material can be processed on all for polyamides suitable tube-extrusion lines, as well as on rod and profile extrusion equipment. Grilon R 47 HW 10 was specially developed for the production of small diameter mandrels which are used for the manufacturing of rubber hoses. Information provided by EMS Grivory

Order this product through the following link:

http://www.lookpolymers.com/polymer_EMS-Grivory-Grivory-R-47-HW-10-PA6.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	10 %	10 %	ISO 62
Moisture Absorption	2.50 %	2.50 %	ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.0 MPa	6380 psi	dry; ISO 527-1/-2
	46.0 MPa	6670 psi	conditioned; ISO 527-1/-2
Tensile Strength, Yield	34.0 MPa	4930 psi	dry; ISO 527-1/-2
	34.0 MPa	4930 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	16 %	16 %	dry; ISO 527-1/-2
	16 %	16 %	dry; ISO 527-1/-2
Tensile Modulus	0.430 GPa	62.4 ksi	conditioned; ISO 527-1/-2
	0.940 GPa	136 ksi	dry; ISO 527-1/-2
Izod Impact, Notched (ISO)	7.50 kJ/m ²	3.57 ft-lb/in ²	conditioned; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	9.60 kJ/m ²	4.57 ft-lb/in ²	dry; ISO 180/1A
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	

Mechanical Properties	Metric @ Temperature 23.0 °C	English @ Temperature 73.4 °F	Comments conditioned; ISO 180/1A
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Thermal Properties	Metric	English	Comments
Melting Point	216 °C	421 °F	10°C/min; ISO 11357-1/-3
Maximum Service Temperature, Air	80.0 - 110 °C	176 - 230 °F	long term; EMS
	150 °C	302 °F	short term; EMS
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	47.0 °C	117 °F	ISO 75-1/-2
Vicat Softening Point	159 °C	318 °F	50°C/h 50N; ISO 306
	210 °C	410 °F	ISO 306

Descriptive Properties	Value	Comments
Additives	Plasticizer	
Automotive	Air intake systems	
	Compressed air systems	
	Cooling and climate control	
	Fuel systems	
	Hydraulic systems	
Electricals & Electronics	Cables & Tubes	
Form	Granules	
Industry & Consumer goods	Hydraulics & Pneumatics	
Processing	Other Extrusion	
Product Attributes	Flexible	
	High viscosity	
	Masterbatch	
Special Characteristics	Improved heat resistance	

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