

EMS-Grivory Grivory® ELG 6260 natural Medium Viscosity Nylon 12 Cond. (Unverified Data)**

Categories: [Polymer](#); [Thermoplastic](#); [Nylon \(Polyamide PA\)](#); [Nylon 12 \(PA12\)](#); [Nylon 12, Extrusion/Tubing Grade](#)

Material Notes: Griflex stands for flexible and enduring polyamide high performance elastomers (PEBA)

Griflex ELG 6260 natural is a medium viscosity polyamide elastomer based on polyamide 12. Griflex ELG 6260 natural can be used for extrusion as well as injection moulding applications. The key properties of Griflex ELG 6260 natural are:

- Flexible
- Shore D hardness 62
- Exceptional toughness also at low temperatures
- Low density
- Good transparency
- Low moisture absorption
- High chemical resistance
- Good hydrolysis resistance

Griflex ELG 6260 natural can be used for hard-soft combinations with unreinforced or reinforced Grilamid grades.




Application Examples:

- Cable sheathing
- Seals
- Ski boot straps
- Pneumatic tubes
- Sport shoes
- Medical applications for catheters and devices

Information Provided by EMS-GRIVORY

Vendors: No vendors are listed for this material. Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	1.01 g/cc	0.0365 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.70 % @Temperature 23.0 °C	0.70 % @Temperature 73.4 °F	50% R.H.; ISO 62
Water Absorption at Saturation	1.5 % @Temperature 23.0 °C	1.5 % @Temperature 73.4 °F	ISO 62
Linear Mold Shrinkage	0.0065 cm/cm	0.0065 in/in	ISO 294
Linear Mold Shrinkage, Transverse	0.0085 cm/cm	0.0085 in/in	ISO 294

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ISO 868
Tensile Strength at Break	50.0 MPa	7250 psi	50mm/min; ISO 527
Tensile Strength, Yield	26.0 MPa	3770 psi	50mm/min; ISO 527
Tensile Stress at Strain	23.0 MPa @Strain 50.0 %	3340 psi @Strain 50.0 %	50mm/min; ISO 527
Elongation at Break	400 %	400 %	50mm/min; ISO 527
Elongation at Yield	18 %	18 %	50mm/min; ISO 527
Tensile Modulus	0.460 GPa	66.7 ksi	1 mm/min; ISO 527
Charpy Impact Unnotched 	NB @Temperature 23.0 °C	NB @Temperature 73.4 °F	ISO 179/2-1eU
Charpy Impact, Notched 	0.800 J/cm ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	ISO 179/2-1eA
Tear Strength	>= 60.0 kN/m 90.0 kN/m	>= 342 pli 514 pli	long.; DIN 53515 trans.; DIN 53515
Abrasion	29	29	mm ³ ; DIN ISO 4649
Compression Set 	48 % @Temperature 23.0 °C, Time 252000 sec	48 % @Temperature 73.4 °F, Time 70.0 hour	Cond.; ISO 815

73 % 73 % Cond.; ISO 815
 @Temperature 70.0 °C, @Temperature 158 °F,
 Time 86400 sec Time 24.0 hour

Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Strength	31.0 kV/mm	787 kV/in	IEC 60243-1
Comparative Tracking Index	600 V	600 V	IEC 60112
Thermal Properties	Metric	English	Comments
Melting Point	176 °C	349 °F	DSC; ISO 11357
Flammability, UL94	HB	HB	ISO 1210
	@Thickness 0.800 mm	@Thickness 0.0315 in	
Optical Properties	Metric	English	Comments
Transmission, Visible	86 %	86 %	ISO 1003
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Processing Properties	Metric	English	Comments
Nozzle Temperature	220 °C	428 °F	
Zone 1	210 °C	410 °F	
Zone 2	220 °C	428 °F	
Zone 3	220 °C	428 °F	
Melt Temperature	210 - 230 °C	410 - 446 °F	
Hold Pressure	40.0 - 60.0 MPa	5800 - 8700 psi	

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