

Arkema Group Orgalloy® LE60 THM Polyamide Alloy

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Polyamide Alloy, Semi-Flexible grade Tubes / Mandrels / Profiles / Cables Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LE60-THM-Polyamide-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.05 g/cc	0.0379 lb/in ³	ISO R1183
Water Absorption	0.80 %	0.80 %	23°C / 24 hrs; ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	23°C / 50% RH; ISO 62
	6.0 %	6.0 %	in 23°C water; ISO 62
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 235 °C	3.0 g/10 min @Load 4.76 lb, Temperature 455 °F	after drying; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	72	72	ISO 868
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ISO R527
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO R527
Elongation at Break	300 %	300 %	ISO R527
Elongation at Yield	5.0 %	5.0 %	ISO R527
Modulus of Elasticity	1.75 GPa	254 ksi	ISO R527
Flexural Strength	40.0 MPa	5800 psi	After conditioning at 23°C and 50% RH; ISO 178
Flexural Modulus	1.40 GPa	203 ksi	After conditioning at 23°C and 50% RH; ISO 178
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	After conditioning at 23°C/50%RH; ISO 179/Af
	2.20 J/cm ² @Temperature -20.0 °C	10.5 ft-lb/in ² @Temperature -4.00 °F	After conditioning at 23°C/50%RH; ISO 179/Af
Tensile Creep Modulus, 1 hour	1520 MPa	220000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	80.0 °C	176 °F	ISO R75
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO R75
Vicat Softening Point	204 °C	399 °F	10 N - A method; ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	NFC 26 220

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