

Arkema Group Orgalloy® LE 60 SF Polyamide Alloy

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Polyamide Alloy, Film and Packaging Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LE-60-SF-Polyamide-Alloy.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 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
	5.5 %	5.5 %	in 23°C water; ISO 62
Melt Flow	6.0 g/10 min @Load 2.16 kg, Temperature 235 °C	6.0 g/10 min @Load 4.76 lb, Temperature 455 °F	after drying; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	68	68	ISO 868
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ISO R527
Tensile Strength, Yield	36.0 MPa	5220 psi	ISO R527
Elongation at Break	280 %	280 %	ISO R527
Elongation at Yield	4.1 %	4.1 %	ISO R527
Modulus of Elasticity	1.35 GPa	196 ksi	ISO R527
Flexural Strength	41.0 MPa	5950 psi	After conditioning at 23°C and 50% RH; ISO 178
Flexural Modulus	0.850 GPa	123 ksi	After conditioning at 23°C and 50% RH; ISO 178
	1.35 GPa	196 ksi	Dry; ISO 178
Charpy Impact, Notched	2.90 J/cm ²	13.8 ft-lb/in ²	After conditioning at 23°C/50%RH; ISO 179/Af
	21.0 J/cm ² @Temperature -20.0 °C	99.9 ft-lb/in ² @Temperature -4.00 °F	After conditioning at 23°C/50%RH; ISO 179/Af
Tensile Creep Modulus, 1 hour	1150 MPa	167000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO R1218
Vicat Softening Point	99.0 °C	210 °F	50 N - B method; ISO 306
	206 °C	403 °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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