

## Arkema Group Orgalloy® LE 6000 Polyamide 6 Alloy

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

### Material Notes:

Polyamide Alloy, Semi-Flexible grade, Nylon 6 based Tubes / Mandrels / Profiles / Cables Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Orgalloy-LE-6000-Polyamide-6-Alloy.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-LE-6000-Polyamide-6-Alloy.php)

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in <sup>3</sup>	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
	6.4 %	6.4 %	in 23°C water; ISO 62
Melt Flow	2.0 g/10 min @Load 2.16 kg, Temperature 235 °C	2.0 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	55.0 MPa	7980 psi	ISO R527
Tensile Strength, Yield	35.0 MPa	5080 psi	ISO R527
Elongation at Break	280 %	280 %	ISO R527
Elongation at Yield	4.2 %	4.2 %	ISO R527
Modulus of Elasticity	1.30 GPa	189 ksi	ISO R527
Flexural Strength	40.0 MPa	5800 psi	After conditioning at 23°C and 50% RH; ISO 178
Flexural Modulus	0.800 GPa	116 ksi	After conditioning at 23°C and 50% RH; ISO 178
	1.30 GPa	189 ksi	Dry; ISO 178
Charpy Impact, Notched	3.00 J/cm <sup>2</sup>	14.3 ft-lb/in <sup>2</sup>	After conditioning at 23°C/50%RH; ISO 179/Af
	2.20 J/cm <sup>2</sup> @Temperature -20.0 °C	10.5 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	After conditioning at 23°C/50%RH; ISO 179/Af
Tensile Creep Modulus, 1 hour	1130 MPa	164000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	ISO R1218
Deflection Temperature at 1.8 MPa (264 psi)	45.0 °C	113 °F	ISO R75
Vicat Softening Point	97.0 °C	207 °F	50 N - B method; ISO 306
	204 °C	399 °F	10 N - A method; ISO 306
Flammability, UL94	HB	HB	
Flame Spread	13 mm/min	0.51 in/min	FMVSS 302

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

Descriptive Properties	Value	Comments
Automotive classification	E-3	FMVSS 302

## Contact Songhan Plastic Technology Co.,Ltd.

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