

Arkema Group Orgalloy® RS 6030 Polyamide 6 Alloy 30% Glass Fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 30% Glass Fiber Filled

Material Notes:

Polyamide Alloy, Rigid grade, Nylon 6 based Molding of Engineering Parts Information provided by Arkema Group

Order this product through the following link:

http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-6030-Polyamide-6-Alloy-30-Glass-Fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0452 lb/in ³	ISO R1183
Water Absorption	0.60 %	0.60 %	23°C / 24 hrs; ISO 62
Moisture Absorption at Equilibrium	1.1 %	1.1 %	23°C / 50% RH; ISO 62
	2.3 %	2.3 %	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	82	82	ISO 868
Tensile Strength, Ultimate	130 MPa	18900 psi	ISO R527
Elongation at Break	3.9 %	3.9 %	ISO R527
Modulus of Elasticity	7.50 GPa	1090 ksi	ISO R527
Flexural Strength	185 MPa	26800 psi	After conditioning at 23°C and 50% RH; ISO 178
	204 MPa	29600 psi	Dry; ISO 178
Flexural Modulus	7.00 GPa	1020 ksi	After conditioning at 23°C and 50% RH; ISO 178
	7.40 GPa	1070 ksi	Dry; ISO 178
Charpy Impact, Notched	2.20 J/cm ²	10.5 ft-lb/in ²	After conditioning at 23°C/50%RH; ISO 179/Af
	2.00 J/cm ² @Temperature 23.0 °C	9.52 ft-lb/in ² @Temperature 73.4 °F	Dry; ISO 179/Af
	18.0 J/cm ² @Temperature -20.0 °C	85.7 ft-lb/in ² @Temperature -4.00 °F	Dry; ISO 179/Af
	19.0 J/cm ²	90.4 ft-lb/in ²	

Mechanical Properties	Metric @ Temperature -20.0 °C	English @ Temperature -4.00 °F	Comments After conditioning at 23°C/50%RH; ISO 11302
Tensile Creep Modulus, 1 hour	5740 MPa	833000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear	19.0 µm/m-°C @Temperature 20.0 - 60.0 °C	10.6 µin/in-°F @Temperature 68.0 - 140 °F	TMS2 Perkin Elmer
CTE, linear, Transverse to Flow	120 µm/m-°C @Temperature 20.0 - 60.0 °C	66.7 µin/in-°F @Temperature 68.0 - 140 °F	TMS2 Perkin Elmer
Melting Point	220 °C	428 °F	ISO R1218
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ISO R75
Deflection Temperature at 1.8 MPa (264 psi)	190 °C	374 °F	ISO R75
Vicat Softening Point	185 °C	365 °F	50 N - B method; ISO 306
	>= 210 °C	>= 410 °F	10 N - A method; ISO 306
Flammability, UL94	HB	HB	
Flame Spread	6.0 mm/min	0.24 in/min	FMVSS 302

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.30e+15 ohm-cm	1.30e+15 ohm-cm	ASTM D257
Surface Resistance	1.30e+15 ohm	1.30e+15 ohm	ASTM D257
Dielectric Strength	34.0 kV/mm @Thickness 1.00 mm	864 kV/in @Thickness 0.0394 in	ASTM D149
Dissipation Factor	0.023 @Frequency 100000 Hz	0.023 @Frequency 100000 Hz	NFC 26 230
	0.064 @Frequency 100 Hz	0.064 @Frequency 100 Hz	NFC 26 230
	0.066 @Frequency 1000 Hz	0.066 @Frequency 1000 Hz	NFC 26 230
Comparative Tracking Index	>= 600 V	>= 600 V	NFC 26 220

Descriptive Properties	Value	Comments
Automotive classification	D-3	FMVSS 302

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