

Arkema Group Orgalloy® RS 6630 Polyamide 6.6 Alloy 30% Glass Fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

Material Notes:

Polyamide Alloy, Rigid grade, Nylon 6.6 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-6630-Polyamide-66-Alloy-30-Glass-Fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ISO R1183
Water Absorption	0.40 %	0.40 %	23°C / 24 hrs; ISO 62
Moisture Absorption at Equilibrium	1.0 %	1.0 %	23°C / 50% RH; ISO 62
	2.3 %	2.3 %	in 23°C water; ISO 62
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 235 °C	8.0 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	140 MPa	20300 psi	ISO R527
Elongation at Break	4.0 %	4.0 %	ISO R527
Modulus of Elasticity	8.80 GPa	1280 ksi	ISO R527
Flexural Strength	190 MPa	27600 psi	After conditioning at 23°C and 50% RH; ISO 178
	210 MPa	30500 psi	Dry; ISO 178
Flexural Modulus	7.20 GPa	1040 ksi	After conditioning at 23°C and 50% RH; ISO 178
	7.60 GPa	1100 ksi	Dry; ISO 178
Charpy Impact, Notched	2.00 J/cm ²	9.52 ft-lb/in ²	After conditioning at 23°C/50%RH; ISO 179/Af
	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	Dry; ISO 179/Af
	17.0 J/cm ² @Temperature -20.0 °C	80.9 ft-lb/in ² @Temperature -4.00 °F	Dry; ISO 179/Af

Mechanical Properties	Metric ¹ cm ²	English ¹ lb/in ²	Comments After conditioning at 23°C/50%RH;
	@Temperature -20.0 °C	@Temperature -4.00 °F	ISO 179/ Af
Tensile Creep Modulus, 1 hour	7890 MPa	1.14e+6 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear	18.0 µm/m-°C @Temperature 20.0 - 60.0 °C	10.0 µin/in-°F @Temperature 68.0 - 140 °F	TMS2 Perkin Elmer
CTE, linear, Transverse to Flow	110 µm/m-°C @Temperature 20.0 - 60.0 °C	61.1 µin/in-°F @Temperature 68.0 - 140 °F	TMS2 Perkin Elmer
Melting Point	255 °C	491 °F	ISO R1218
Deflection Temperature at 0.46 MPa (66 psi)	245 °C	473 °F	ISO R75
Deflection Temperature at 1.8 MPa (264 psi)	225 °C	437 °F	ISO R75
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.10e+15 ohm-cm	2.10e+15 ohm-cm	ASTM D257
Surface Resistance	5.30e+15 ohm	5.30e+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	0.016 @Frequency 100000 Hz	0.016 @Frequency 100000 Hz	NFC 26 230
	0.029 @Frequency 100 Hz	0.029 @Frequency 100 Hz	NFC 26 230
	0.031 @Frequency 1000 Hz	0.031 @Frequency 1000 Hz	NFC 26 230
Comparative Tracking Index	>= 600 V	>= 600 V	NFC 26 220

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