

Arkema Group Orgalloy® RS 6620 Polyamide 6.6 Alloy 20% Glass Fiber reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 20% 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-6620-Polyamide-66-Alloy-20-Glass-Fiber-reinforced.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO R1183
Water Absorption	0.50 %	0.50 %	23°C / 24 hrs; ISO 62
Moisture Absorption at Equilibrium	1.2 %	1.2 %	23°C / 50% RH; ISO 62
	3.0 %	3.0 %	in 23°C water; ISO 62
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 235 °C	10 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	110 MPa	16000 psi	ISO R527
Elongation at Break	4.5 %	4.5 %	ISO R527
Modulus of Elasticity	5.50 GPa	798 ksi	ISO R527
Flexural Strength	160 MPa	23200 psi	After conditioning at 23°C and 50% RH; ISO 178
Flexural Modulus	5.15 GPa	747 ksi	After conditioning at 23°C and 50% RH; ISO 178
Charpy Impact, Notched	1.60 J/cm ²	7.61 ft-lb/in ²	After conditioning at 23°C/50%RH; ISO 179/Af
	10.0 J/cm ² @Temperature -20.0 °C	47.6 ft-lb/in ² @Temperature -4.00 °F	After conditioning at 23°C/50%RH; ISO 179/Af
Tensile Creep Modulus, 1 hour	4900 MPa	711000 psi	ISO 899-1

Thermal Properties	Metric	English	Comments
CTE, linear	35.0 µm/m-°C	19.4 µin/in-°F	TMS2 Perkin Elmer

Thermal Properties	Metric @Temperature 20.0 - 60.0 °C	English @Temperature 68.0 - 140 °F	Comments
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	TMS2 Perkin Elmer
	@Temperature 20.0 - 60.0 °C	@Temperature 68.0 - 140 °F	
Melting Point	255 °C	491 °F	ISO R1218
Deflection Temperature at 0.46 MPa (66 psi)	240 °C	464 °F	ISO R75
Deflection Temperature at 1.8 MPa (264 psi)	220 °C	428 °F	ISO R75
Vicat Softening Point	160 °C	320 °F	50 N - B method; ISO 306
	>= 210 °C	>= 410 °F	10 N - A method; ISO 306
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.10e+15 ohm-cm	4.10e+15 ohm-cm	ASTM D257
Surface Resistance	7.20e+15 ohm	7.20e+15 ohm	ASTM D257
Dielectric Strength	36.0 kV/mm	914 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.017	0.017	NFC 26 230
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.028	0.028	NFC 26 230
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.031	0.031	NFC 26 230
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	NFC 26 220

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