

## Arkema Group Orgalloy® RS 60E10 Polyamide Alloy

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

Polyamide Alloy, Rigid Blown film grade Tubes / Mandrels / Profiles / Cables Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Orgalloy-RS-60E10-Polyamide-Alloy.php](http://www.lookpolymers.com/polymer_Arkema-Group-Orgalloy-RS-60E10-Polyamide-Alloy.php)

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0372 lb/in <sup>3</sup>	ISO R1183
Water Absorption	1.1 %	1.1 %	23°C / 24 hrs; ISO 62
Moisture Absorption at Equilibrium	1.3 %	1.3 %	23°C / 50% RH; ISO 62
	3.2 %	3.2 %	in 23°C water; ISO 62
Melt Flow	14 g/10 min @Load 5.00 kg, Temperature 235 °C	14 g/10 min @Load 11.0 lb, Temperature 455 °F	after drying; ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	71	71	ISO 868
Tensile Strength, Ultimate	45.0 MPa	6530 psi	ISO R527
Tensile Strength, Yield	42.0 MPa	6090 psi	ISO R527
Elongation at Break	240 %	240 %	ISO R527
Elongation at Yield	3.9 %	3.9 %	ISO R527
Modulus of Elasticity	1.62 GPa	235 ksi	ISO R527
Flexural Strength	50.0 MPa	7250 psi	After conditioning at 23°C and 50% RH; ISO 178
	61.0 MPa	8850 psi	Dry; ISO 178
Flexural Modulus	1.35 GPa	196 ksi	After conditioning at 23°C and 50% RH; ISO 178
	1.85 GPa	268 ksi	Dry; ISO 178
Charpy Impact, Notched	3.20 J/cm <sup>2</sup>	15.2 ft-lb/in <sup>2</sup>	After conditioning at 23°C/50%RH; ISO 179/Af
	2.30 J/cm <sup>2</sup> @Temperature -20.0 °C	10.9 ft-lb/in <sup>2</sup> @Temperature -4.00 °F	Dry; ISO 179/Af

Mechanical Properties	Metric	English	Comments
	2.50 J/cm <sup>2</sup>	11.9 ft-lb/in <sup>2</sup>	After conditioning at 23°C/50%RH; ISO 179/A1
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.70 J/cm <sup>2</sup>	12.8 ft-lb/in <sup>2</sup>	Dry; ISO 179/Af
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	TMS2 Perkin Elmer
	@Temperature 20.0 - 60.0 °C	@Temperature 68.0 - 140 °F	
CTE, linear, Transverse to Flow	140 µm/m-°C	77.8 µin/in-°F	TMS2 Perkin Elmer
	@Temperature 20.0 - 60.0 °C	@Temperature 68.0 - 140 °F	
Melting Point	220 °C	428 °F	ISO R1218
Deflection Temperature at 0.46 MPa (66 psi)	90.0 °C	194 °F	ISO R75
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	ISO R75
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.60e+15 ohm-cm	1.60e+15 ohm-cm	ASTM D257
Surface Resistance	4.90e+15 ohm	4.90e+15 ohm	ASTM D257
Dielectric Strength	38.0 kV/mm	965 kV/in	ASTM D149
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.025	0.025	NFC 26 230
	@Frequency 100000 Hz	@Frequency 100000 Hz	
	0.070	0.070	NFC 26 230
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.070	0.070	NFC 26 230
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	NFC 26 220

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