

DSM Akulon® F160-Z PA6

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

Material Notes:

Very High Viscosity, Lubricated

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-F160-Z-PA6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	9.5 %	9.5 %	Sim. To ISO 62
Moisture Absorption	2.50 %	2.50 %	Sim. To ISO 62
Viscosity Test	450 cm ³ /g	450 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	>= 50 %	>= 50 %	dry; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
Tensile Modulus	3.20 GPa	464 ksi	dry; ISO 527-1/-2

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	100 µm/m-°C	55.6 µin/in-°F	ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+15 ohm	1.00e+15 ohm	cond; IEC 60093
Dielectric Constant	3.1	3.1	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Constant	3.4	3.4	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	dry; IEC 60243-1

Electrical Properties	0.0065 Metric	0.0065 English	Comments
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0165	0.0165	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	dry; IEC 60250

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