

DSM Akulon® Ultraflow K-FKGS6 /B PA6-GF30 FR(17)

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

Material Notes:

30% Glass Reinforced, Heat Stabilized, Flame Retardant, High Flow

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-Ultraflow-K-FKGS6-B-PA6-GF30-FR17.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	dry; ISO 1183
Water Absorption	4.5 %	4.5 %	Sim. To ISO 62
Moisture Absorption	1.30 %	1.30 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0021 cm/cm	0.0021 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0077 cm/cm	0.0077 in/in	Sim. To ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	100 MPa	14500 psi	cond; ISO 527-1/-2
	150 MPa	21800 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	5.0 %	5.0 %	cond; ISO 527-1/-2
Tensile Modulus	7.03 GPa	1020 ksi	cond; ISO 527-1/-2
	11.5 GPa	1670 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.98 J/cm ²	28.5 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.98 J/cm ²	28.5 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Charpy Impact Notched	5.98 J/cm ²	28.5 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	5.98 J/cm ²	28.5 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	1.20 J/cm ² Metric	5.71 ft-lb/in ² English	Comments
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	1.30 J/cm ²	6.19 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	1.50 J/cm ²	7.14 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	20.0 µm/m-°C	11.1 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	110 µm/m-°C	61.1 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 0.46 MPa (66 psi)	215 °C	419 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	dry; IEC 60695-11-10
	@Thickness 0.749 mm	@Thickness 0.0295 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	cond; IEC 60093
	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	cond; IEC 60093
Dielectric Constant	3.4	3.4	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.5	3.5	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	4.0	4.0	cond; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	10	10	cond; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
Dissipation Factor			dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.012	0.012	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	dry; IEC 60250
	0.070	0.070	
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	cond; IEC 60250
	0.30	0.30	
	@Frequency 100 Hz	@Frequency 100 Hz	cond; IEC 60250
Comparative Tracking Index	325 V	325 V	dry; IEC 60112

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