

DSM Akulon® XG-FKGS6 PA6-GF30 FR

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

Material Notes:

30% Glass Reinforced, Flame Retardant, Halogen free

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-XG-FKGS6-PA6-GF30-FR.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	dry; ISO 1183
Moisture Absorption	1.70 %	1.70 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	85.0 MPa	12300 psi	cond; ISO 527-1/-2
	135 MPa	19600 psi	dry; ISO 527-1/-2
Elongation at Break	2.0 %	2.0 %	dry; ISO 527-1/-2
	3.7 %	3.7 %	cond; ISO 527-1/-2
Tensile Modulus	7.10 GPa	1030 ksi	cond; ISO 527-1/-2
	11.5 GPa	1670 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	205 °C	401 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0	V-0	IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	
	V-0	V-0	IEC 60695-11-10
	@Thickness 0.800 mm	@Thickness 0.0315 in	

Thermal Properties	775 °C Metric	1430 °F English	Comments
	@Thickness 1.60 mm	@Thickness 0.0630 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	775 °C @Thickness 1.00 mm	1430 °F @Thickness 0.0394 in	Glow Wire Ignition Temperature; IEC 60695-2-13
	960 °C @Thickness 1.60 mm	1760 °F @Thickness 0.0630 in	Glow Wire Flammability Index, dry; IEC 60695-2-12
	960 °C @Thickness 0.800 mm	1760 °F @Thickness 0.0315 in	Glow Wire Flammability Index, dry; IEC 60695-2-12

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	cond; IEC 60112

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