

**DSM Akulon® SG-KGS6 PA66-GF30 FR**

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, 30% Glass Fiber Filled

**Material Notes:**

30% Glass Reinforced, Halogen free and free of red phosphorous

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Akulon-SG-KGS6-PA66-GF30-FR.php](http://www.lookpolymers.com/polymer_DSM-Akulon-SG-KGS6-PA66-GF30-FR.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	dry; ISO 1183
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	150 MPa	21800 psi	dry; ISO 527-1/-2
Elongation at Break	2.8 %	2.8 %	dry; ISO 527-1/-2
Tensile Modulus	11.0 GPa	1600 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	6.30 J/cm <sup>2</sup> @Temperature 23.0 °C	30.0 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	dry; ISO 179/1eU
Charpy Impact, Notched	0.900 J/cm <sup>2</sup> @Temperature 23.0 °C	4.28 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3
Deflection Temperature at 1.8 MPa (264 psi)	245 °C	473 °F	dry; ISO 75-1/-2
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	dry; IEC 60695-11-10
	V-0 @Thickness 0.400 mm	V-0 @Thickness 0.0157 in	dry; IEC 60695-11-10

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