

DSM Akulon® K224-PG2 PA6-I-GF8

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 10% Glass Fiber Filled

Material Notes:

8% Glass Reinforced, Impact Modified

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K224-PG2-PA6-I-GF8.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	dry; ISO 1183
Water Absorption	7.6 %	7.6 %	Sim. To ISO 62
Moisture Absorption	2.20 %	2.20 %	Sim. To ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	50.0 MPa	7250 psi	cond; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	5.5 %	5.5 %	dry; ISO 527-1/-2
	15 %	15 %	cond; ISO 527-1/-2
Tensile Modulus	1.90 GPa	276 ksi	cond; ISO 527-1/-2
	3.70 GPa	537 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.50 J/cm ²	21.4 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	4.50 J/cm ²	21.4 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.50 J/cm ²	30.9 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	dry; ISO 179/1eU
	8.00 J/cm ²	38.1 ft-lb/in ²	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	cond; ISO 179/1eA
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	1.50 J/cm ² Metric	7.14 ft-lb/in ² English	Comments 9/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.20 J/cm ²	10.5 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	30.0 µm/m-°C	16.7 µin/in-°F	dry; ISO 11359-1/-2
CTE, linear, Transverse to Flow	80.0 µm/m-°C	44.4 µin/in-°F	dry; ISO 11359-1/-2
Deflection Temperature at 0.46 MPa (66 psi)	200 °C	392 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	dry; ISO 75-1/-2
Flammability, UL94	HB	HB	dry; IEC 60695-11-10
	@Thickness 1.60 mm	@Thickness 0.0630 in	

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