

DSM Akulon® K222-KMV5 /A PA6-MD25 FR(30)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6, 30% Mineral Filled

Material Notes:

25% Mineral Reinforced, Flame Retardant (Halogen free), Color Stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K222-KMV5-A-PA6-MD25-FR30.php

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in ³	dry; ISO 1183
Water Absorption	6.2 %	6.2 %	Sim. To ISO 62
Moisture Absorption	1.80 %	1.80 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.0091 cm/cm	0.0091 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.0082 cm/cm	0.0082 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	cond; ISO 527-1/-2
	65.0 MPa	9430 psi	dry; ISO 527-1/-2
Elongation at Break	2.5 %	2.5 %	dry; ISO 527-1/-2
	30 %	30 %	cond; ISO 527-1/-2
Tensile Modulus	2.50 GPa	363 ksi	cond; ISO 527-1/-2
	6.00 GPa	870 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	2.50 J/cm ² @Temperature -30.0 °C	11.9 ft-lb/in ² @Temperature -22.0 °F	dry; ISO 179/1eU
	2.90 J/cm ² @Temperature 23.0 °C	13.8 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eU
Charpy Impact, Notched	0.200 J/cm ² @Temperature 23.0 °C	0.952 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 179/1eA
	0.200 J/cm ² @Temperature -30.0 °C	0.952 ft-lb/in ² @Temperature -22.0 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	50.0 µm/m-°C	27.8 µin/in-°F	dry; ISO 11359-1/-2

Thermal Properties CTE, linear, transverse to Flow	Metric 30.0 µm/m-°C	English 27.0 µm/in-°F	Comments 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)	205 °C	401 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	dry; ISO 75-1/-2
Flammability, UL94	V-2	V-2	dry; IEC 60695-11-10
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-2	V-2	dry; IEC 60695-11-10
	@Thickness 0.750 mm	@Thickness 0.0295 in	
Glow Wire Test	700 °C	1290 °F	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	725 °C	1340 °F	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	

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
Comparative Tracking Index	600 V	600 V	cond; IEC 60112

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