

DSM Akulon® K225-KV PA6 FR(30)

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced, Flame Retardant

Material Notes:

Flame Retardant (Halogen free), Heat stabilized

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K225-KV-PA6-FR30.php

Physical Properties	Metric	English	Comments
Density	1.21 g/cc	0.0437 lb/in ³	dry; ISO 1183
Water Absorption	7.5 %	7.5 %	Sim. To ISO 62
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm	0.010 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	35.0 MPa	5080 psi	cond; ISO 527-1/-2
	70.0 MPa	10200 psi	dry; ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	3.0 %	3.0 %	dry; ISO 527-1/-2
	30 %	30 %	cond; ISO 527-1/-2
Tensile Modulus	1.60 GPa	232 ksi	cond; ISO 527-1/-2
	4.20 GPa	609 ksi	dry; ISO 527-1/-2
Charpy Impact Unnotched	4.00 J/cm ²	19.0 ft-lb/in ²	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.400 J/cm ²	1.90 ft-lb/in ²	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.500 J/cm ²	2.38 ft-lb/in ²	cond; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Mechanical Properties	Metric 0.009 1/cm ²	English 4.28 0-lb/in ²	Comments cond; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Flammability, UL94	V-2	V-2	,dry; IEC 60695-11-10
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	V-2	V-2	,dry; IEC 60695-11-10
	@Thickness 3.00 mm	@Thickness 0.118 in	
Glow Wire Test	850 °C	1560 °F	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	@Thickness 3.00 mm	@Thickness 0.118 in	
	930 °C	1710 °F	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	960 °C	1760 °F	Glow Wire Flammability Index, dry; IEC 60695-2-12
	@Thickness 0.380 mm	@Thickness 0.0150 in	
	960 °C	1760 °F	Glow Wire Flammability Index, dry; IEC 60695-2-12
	@Thickness 3.00 mm	@Thickness 0.118 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	3.2	3.2	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.3	3.3	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.6	3.6	cond; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	8.0	8.0	cond; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength			cond; IEC 60243-1

Electrical Properties	25.0 kV/mm Metric	635 kV/in English	Comments
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Dissipation Factor	0.0090	0.0090	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.020	0.020	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.080	0.080	cond; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.125	0.125	cond; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China