

## DSM Akulon® CO-KGV4 /A JN.00.86 PA6-GF20 FR

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Glass Fiber Filled, Flame Retardant

### Material Notes:

% Glass Reinforced, Heat Stabilized, Flame Retardant (halogen-phosphorous-free)

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_DSM-Akulon-CO-KGV4-A-JN0086-PA6-GF20-FR.php](http://www.lookpolymers.com/polymer_DSM-Akulon-CO-KGV4-A-JN0086-PA6-GF20-FR.php)

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in <sup>3</sup>	dry; ISO 1183
Water Absorption	6.5 %	6.5 %	Sim. To ISO 62
Moisture Absorption	2.00 %	2.00 %	Sim. To ISO 62
Linear Mold Shrinkage, Flow	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	Sim. To ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	63.0 MPa	9140 psi	dry; ISO 527-1/-2
Elongation at Break	3.0 %	3.0 %	dry; ISO 527-1/-2
Tensile Modulus	4.80 GPa	696 ksi	dry; ISO 527-1/-2
Charpy Impact, Notched	0.200 J/cm <sup>2</sup> @Temperature 23.0 °C	0.952 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	dry; ISO 179/1eA

Thermal Properties	Metric	English	Comments
Melting Point	220 °C	428 °F	10°C/min; ISO 11357-1/-3
Flammability, UL94	V-2 @Thickness 1.60 mm	V-2 @Thickness 0.0630 in	dry; IEC 60695-11-10
	V-2 @Thickness 0.800 mm	V-2 @Thickness 0.0315 in	dry; IEC 60695-11-10
Glow Wire Test	725 °C @Thickness 1.60 mm	1340 °F @Thickness 0.0630 in	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	725 °C @Thickness 0.800 mm	1340 °F @Thickness 0.0315 in	Glow Wire Ignition Temperature, dry; IEC 60695-2-13
	960 °C	1760 °F	Glow Wire Flammability Index, dry;

Thermal Properties	Metric @ Thickness 1.60 mm	English @ Thickness 0.0630 in	IEC 60695-2-12 Comments
	960 °C	1760 °F	Glow Wire Flammability Index, dry; IEC 60695-2-12
	@Thickness 0.800 mm	@Thickness 0.0315 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	3.8	3.8	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.9	3.9	cond; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	4.3	4.3	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	10	10	cond; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	cond; IEC 60243-1
	30.0 kV/mm	762 kV/in	dry; IEC 60243-1
Dissipation Factor	0.013	0.013	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.10	0.10	cond; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.21	0.21	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	0.30	0.30	cond; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	600 V	600 V	dry; IEC 60112

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