

DSM Akulon® S245-C PA66

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66 , Unreinforced

Material Notes:

High Viscosity

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-S245-C-PA66.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	dry; ISO 1183
Water Absorption	9.0 %	9.0 %	Sim. To ISO 62
Moisture Absorption	2.50 %	2.50 %	Sim. To ISO 62
Viscosity Test	330 cm ³ /g	330 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 µm/m-°C	50.0 µin/in-°F	dry; ISO 11359-1/-2
Melting Point	260 °C	500 °F	10°C/min; ISO 11357-1/-3

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	dry; IEC 60093
Dielectric Constant	3.3	3.3	dry; IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
	3.6	3.6	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	25.0 kV/mm	635 kV/in	dry; IEC 60243-1
Dissipation Factor	0.0090	0.0090	dry; IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	

Electrical Properties	Metric	English	Comments
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	dry; IEC 60250

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