

DSM Akulon® K123, K123/A PA6

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

Material Notes:

Low Viscosity

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-K123-K123A-PA6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	dry; ISO 1183
Water Absorption	9.5 %	9.5 %	Sim. To ISO 62
Moisture Absorption	2.50 %	2.50 %	Sim. To ISO 62
Viscosity Test	135 cm ³ /g	135 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	75.2 MPa	10900 psi	dry; ISO 527-1/-2
Elongation at Break	30 %	30 %	dry; ISO 527-1/-2
Tensile Modulus	2.80 GPa	406 ksi	dry; ISO 527-1/-2
Flexural Modulus	2.70 GPa	392 ksi	dry; ISO 178
Izod Impact Resistance	0.699 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @Temperature 73.4 °F	dry; ISO 180/1A
Charpy Impact, Notched	0.699 J/cm ² @Temperature 23.0 °C	3.33 ft-lb/in ² @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
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	dry; ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	50.0 °C	122 °F	dry; ISO 75-1/-2

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