

## DSM Akulon® K125/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-K125A-PA6.php](http://www.lookpolymers.com/polymer_DSM-Akulon-K125A-PA6.php)

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in <sup>3</sup>	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	152 cm <sup>3</sup> /g	152 cm <sup>3</sup> /g	Viscosity Number; ISO 307, 1157, 1628

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	45.0 MPa	6530 psi	cond; ISO 527-1/-2
	85.0 MPa	12300 psi	dry; ISO 527-1/-2
Elongation at Break	20 %	20 %	dry; ISO 527-1/-2
	>= 50 %	>= 50 %	cond; ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	dry; ISO 527-1/-2
	25 %	25 %	cond; ISO 527-1/-2
Tensile Modulus	1.00 GPa	145 ksi	cond; ISO 527-1/-2
	3.20 GPa	464 ksi	dry; ISO 527-1/-2
Flexural Strength	100 MPa	14500 psi	dry; ISO 178
Flexural Modulus	2.60 GPa	377 ksi	dry; ISO 178
Charpy Impact Unnotched	NB	NB	cond; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	cond; ISO 179/1eU
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	NB	NB	dry; ISO 179/1eU
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	NB	NB	

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.500 J/cm <sup>2</sup>	2.38 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	dry; ISO 179/1eA
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	3.50 J/cm <sup>2</sup>	16.7 ft-lb/in <sup>2</sup>	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

## Contact Songhan Plastic Technology Co.,Ltd.

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