

DSM Akulon® F130-E5 PA6

Category : Polymer , Film , Thermoplastic , Nylon , Nylon 6 , Nylon 6, Extruded

Material Notes:

Medium Viscosity, Nucleated, Lubricated, Film Extrusion, Antiblock

Order this product through the following link:

http://www.lookpolymers.com/polymer_DSM-Akulon-F130-E5-PA6.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Vapor Transmission	35.0 g/m ² /day @Temperature 23.0 °C	2.25 g/100 in ² /day @Temperature 73.4 °F	at 85% r.h., film; DIS 15106-1/-3
Oxygen Transmission	1.00 cc-mm/m ² -24hr-atm @Temperature 23.0 °C	2.54 cc-mil/100 in ² -24hr-atm @Temperature 73.4 °F	at 0% r.h., film; DIS 15105-1/-2
	1.55 cc-mm/m ² -24hr-atm @Temperature 23.0 °C	3.94 cc-mil/100 in ² -24hr-atm @Temperature 73.4 °F	at 85% r.h., film; DIS 15105-1/-2
Viscosity	810000 cP @Temperature 260 °C	810000 cP @Temperature 500 °F	Melt Viscosity; DSM method
	300000 cP @Shear Rate 1000 1/s, Temperature 280 °C	300000 cP @Shear Rate 1000 1/s, Temperature 536 °F	
	350000 cP @Shear Rate 1000 1/s, Temperature 260 °C	350000 cP @Shear Rate 1000 1/s, Temperature 500 °F	
	400000 cP @Shear Rate 1000 1/s, Temperature 240 °C	400000 cP @Shear Rate 1000 1/s, Temperature 464 °F	
	600000 cP @Shear Rate 0.100 1/s, Temperature 280 °C	600000 cP @Shear Rate 0.100 1/s, Temperature 536 °F	
	800000 cP @Shear Rate 0.100 1/s, Temperature 260 °C	800000 cP @Shear Rate 0.100 1/s, Temperature 500 °F	
	1.05e+6 cP @Shear Rate 0.100 1/s,	1.05e+6 cP @Shear Rate 0.100 1/s,	

Physical Properties	Temperature 240 °C Metric	Temperature 464 °F English	Comments
Viscosity Measurement	3.0	3.0	RSV formic acid, 1g/100ml; DSM method
Viscosity Test	195 cm ³ /g	195 cm ³ /g	Viscosity Number; ISO 307, 1157, 1628
Thickness	50.0 microns	1.97 mil	film

Mechanical Properties	Metric	English	Comments
Film Tensile Strength at Yield, MD	34.0 MPa	4930 psi	parallel; ISO 527-3
Film Elongation at Break, MD	350 %	350 %	parallel; ISO 527-3
Modulus of Elasticity	0.465 GPa	67.4 ksi	film; DSM-Method, 50 mm/min
Coefficient of Friction, Dynamic	0.80	0.80	film; ISO 8295
Coefficient of Friction, Static	1.4	1.4	film; ISO 8295
Tear Strength Test	33	33	Trouser tear resistance, parallel, film; ISO 6383-1
Film Tensile Strength at Break, MD	96.0 MPa	13900 psi	parallel; ISO 527-3

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	90.0 μm/m-°C	50.0 μin/in-°F	ISO 11359-1/-2
Specific Heat Capacity	1.55 J/g-°C	0.370 BTU/lb-°F	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.25 J/g-°C	0.538 BTU/lb-°F	
	@Temperature 20.0 - 150 °C	@Temperature 68.0 - 302 °F	

Optical Properties	Metric	English	Comments
Transmission, Visible	85 %	85 %	film; DSM method

Processing Properties	Metric	English	Comments
Processing Temperature	270 °C	518 °F	Extruder Temperature
Die Temperature	270 °C	518 °F	
Roll Temperature	110 °C	230 °F	

Descriptive Properties	Value	Comments
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Extrusion Type Descriptive Properties	Cast Film Value	Comments
Puncture Resistance	1230 J/m	Film (DSM Method)

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