

Ashley Polymers Ashlene® 935-40M Nylon 11

Category : Polymer , Thermoplastic , Nylon , Nylon 11 , Nylon 11, Unreinforced

Material Notes:

A rotational molding grade Nylon 11 with a 40-50 mesh.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-935-40M-Nylon-11.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in³	ASTM D792
Water Absorption	0.30 %	0.30 %	ASTM D570
Moisture Absorption at Equilibrium	1.1 %	1.1 %	65% RH; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	108	108	ASTM D785
Tensile Strength, Ultimate	59.0 MPa	8560 psi	ATSM D638
Elongation at Break	290 %	290 %	ASTM D638
Flexural Modulus	0.980 GPa	142 ksi	ASTM D790
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	0.260 J/cm	0.487 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	186 °C	367 °F	ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	150 °C	302 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	55.0 °C	131 °F	ASTM D648
Brittleness Temperature	<= -70.0 °C	<= -94.0 °F	ASTM D746
Glass Transition Temp, Tg	<= -70.0 °C	<= -94.0 °F	ASTM D746

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