

Ashley Polymers Ashlene® 1041R Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

A general purpose, injection molding grade, natural resin.Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-1041R-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
Moisture Absorption at Equilibrium	0.34 %	0.34 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	10 g/10 min	10 g/10 min	Cond. 300/1.2

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength, Ultimate	66.0 MPa	9570 psi	ATSM D638
Elongation at Break	125 %	125 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Compressive Yield Strength	76.0 MPa	11000 psi	ASTM D695
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256
Tensile Impact Strength	580 kJ/m ² @Thickness 3.20 mm	276 ft-lb/in ² @Thickness 0.126 in	ASTM D1822S

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	ASTM D648

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