

Ashley Polymers Ashlene® P1081 Polycarbonate

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

Material Notes:

A high viscosity resin for blow molding as well as injection molding heavy wall parts requiring maximum impact strength. Also available: P1083, same with UV stabilizer; P1081R, same with release; P1083R, with UV and release; P1084, FDA approved. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-P1081-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption	0.20 %	0.20 %	ASTM D570
Moisture Absorption at Equilibrium	0.35 %	0.35 %	ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	3.0 - 4.0 g/10 min	3.0 - 4.0 g/10 min	Cond. 0

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	66.0 MPa	9570 psi	ATSM D638
Elongation at Break	125 %	125 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	8.00 J/cm	15.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	ASTM D648

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