

Adell DS-10 General Purpose Polycarbonate

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

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_Adell-DS-10-General-Purpose-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	ASTM D955
Melt Flow	9.0 - 11 g/10 min @Load 1.20 kg, Temperature 300 °C	9.0 - 11 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Tensile Strength, Ultimate	69.0 MPa	10000 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	96.5 MPa	14000 psi	ASTM D790
Flexural Modulus	2.34 GPa	339 ksi	ASTM D790
Izod Impact, Notched	8.01 J/cm @Thickness 3.17 mm	15.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	ASTM D648

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