

Ashley Polymers Ashlene® C1174,C1175 Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

Material Notes:

These are also available with UV, designated by -3. For release, add R. These are all flame retardant grades developed for various applications such as electrical, electronic, lighting, computer, appliance, business equipment and communications. Data provided by the manufacturer

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ashley-Polymers-Ashlene-C1174C1175-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 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	6.0 - 8.0 g/10 min	6.0 - 8.0 g/10 min	Cond. O, for C1174
	9.0 - 12 g/10 min	9.0 - 12 g/10 min	Cond. O, for C1175

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength, Ultimate	61.0 MPa	8850 psi	ATSM D638
Elongation at Break	75 %	75 %	ASTM D638
Flexural Strength	90.0 MPa	13100 psi	ASTM D790
Flexural Modulus	2.20 GPa	319 ksi	ASTM D790
Izod Impact, Notched	5.87 J/cm	11.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	128 °C	262 °F	ASTM D648
Flammability, UL94	V-0	V-0	
	@Thickness 3.20 mm	@Thickness 0.126 in	

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