

E-Polymers TEKANATE® G7010 General Purpose Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Modified Poly Carbonate: TEKANATE is a modified PC by improving polycarbonate resins with features of halogen-free flammability, transparency, impact resistance and reinforced fiberglass. It shows high dimensional stability and rigidity. Information Provided by E-Polymers Co., Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_E-Polymers-TEKANATE-G7010-General-Purpose-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
Melt Flow	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength	62.59 MPa	9078 psi	ASTM D638
Elongation at Break	137 %	137 %	ASTM D638
Flexural Strength	91.23 MPa	13230 psi	ASTM D790
Flexural Modulus	2.075 GPa	300.9 ksi	ASTM D790
Izod Impact, Notched	8.83 J/cm	16.5 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	>= 130 °C	>= 266 °F	ASTM D648
Flammability, UL94	V-2	V-2	

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 300 °C	518 - 572 °F	
Mold Temperature	80.0 °C	176 °F	

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