Edgetek™ ET3200-8001 LG
Polycarbonate

Key Characteristics

Product Description			
High transparent, low gloss, light diffusing polycarbonate compound			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Features	• High Heat Resistance	• High Light Diffusion	• Low Gloss
Uses	• Electrical/Electronic Applications	• LEDs	• Lighting Diffusers
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Technical Properties [1]

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.20	1.20	ASTM D792
Molding Shrinkage (0.118 in (3.00 mm))	0.50 to 0.70 %	0.50 to 0.70 %	ISO 294-4
Mechanical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Tensile Strength [2]	7980 psi	55.0 MPa	ASTM D638
Tensile Elongation [2] (Break)	> 50 %	> 50 %	ASTM D638
Flexural Modulus [3]	319000 psi	2200 MPa	ASTM D790
Flexural Strength [3]	13100 psi	90.0 MPa	ASTM D790
Impact	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Notched Izod Impact	2.8 ft·lb/in	150 J/m	ASTM D256
Thermal	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Unannealed	230 °F	110 °C	
Electrical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Surface Resistivity	> 1.0E+12 ohms	> 1.0E+12 ohms	ASTM D257
Flammability	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Flame Rating (0.06 in (1.6 mm))	HB	HB	Internal Method
Optical	**Typical Value (English)**	**Typical Value (SI)**	**Test Method**
Transmittance (78.7 mil (2000 µm))	> 88.0 %	> 88.0 %	Internal Method
Haze (78.7 mil (2000 µm))	> 98.0 %	> 98.0 %	Internal Method

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	500 to 554 °F	260 to 290 °C
Mold Temperature	176 to 248 °F	80 to 120 °C