



# 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 <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
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 <sup>2</sup>	7980 psi	55.0 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	> 50 %	> 50 %	ASTM D638
Flexural Modulus <sup>3</sup>	319000 psi	2200 MPa	ASTM D790
Flexural Strength <sup>3</sup>	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 264 psi (1.8 MPa), Unannealed	230 °F	110 °C	ASTM D648
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 (0.0630 in (1.60 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 %	> 98 %	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	80.0 to 120 °C

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**Injection Notes**

Injection Pressure: MED-HIGH

Hold Pressure: MED-HIGH

Screw Speed: MODERATE

Back Pressure: LOW

**Notes**<sup>1</sup> Typical values are not to be construed as specifications.<sup>2</sup> 2.0 in/min (50 mm/min)<sup>3</sup> 0.051 in/min (1.3 mm/min)**CONTACT INFORMATION****Americas**United States - Avon Lake  
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