

LG Chemical LUMIPLAS LD590 Light diffusion ABS

Category : Polymer , Thermoplastic , ABS Polymer

Material Notes:

Description: Injection Molding, Light diffusion, Medium ImpactApplication: (LED) Lamp Cover, Signboard Lighting Decoration of Electronic DeviceCAS No. 9010-94-0Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUMIPLAS-LD590-Light-diffusion-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm @Thickness 3.20 mm	0.0040 - 0.0070 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 220 Â°C	9.0 g/10 min @Load 22.0 lb, Temperature 428 Â°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	115	115	ASTM D785
Tensile Strength, Yield	53.9 MPa @Thickness 3.20 mm	7820 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	20 % @Thickness 3.20 mm	20 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	88.3 MPa @Thickness 3.20 mm	12800 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.75 GPa @Thickness 3.20 mm	398 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	0.588 J/cm @Thickness 6.40 mm, Temperature 23.0 Â°C	1.10 ft-lb/in @Thickness 0.252 in, Temperature 73.4 Â°F	ASTM D256
	0.637 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	1.19 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	8.40 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$	4.67 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	84.0 $\text{Å}^\circ\text{C}$ @Thickness 6.40 mm	183 $\text{Å}^\circ\text{F}$ @Thickness 0.252 in	ASTM D648
UL RTI, Electrical	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	
UL RTI, Mechanical with Impact	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	
UL RTI, Mechanical without Impact	50.0 $\text{Å}^\circ\text{C}$	122 $\text{Å}^\circ\text{F}$	
Flammability, UL94	HB @Thickness ≥ 1.50 mm	HB @Thickness ≥ 0.0591 in	
	HB @Thickness ≥ 3.00 mm	HB @Thickness ≥ 0.118 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 $\text{Å}^\circ\text{C}$	374 - 410 $\text{Å}^\circ\text{F}$	Injection Molding
Middle Barrel Temperature	200 - 220 $\text{Å}^\circ\text{C}$	392 - 428 $\text{Å}^\circ\text{F}$	Injection Molding
Front Barrel Temperature	220 - 250 $\text{Å}^\circ\text{C}$	428 - 482 $\text{Å}^\circ\text{F}$	Injection Molding
Nozzle Temperature	230 - 250 $\text{Å}^\circ\text{C}$	446 - 482 $\text{Å}^\circ\text{F}$	Injection Molding
Melt Temperature	230 - 250 $\text{Å}^\circ\text{C}$	446 - 482 $\text{Å}^\circ\text{F}$	Injection Molding
Mold Temperature	40.0 - 60.0 $\text{Å}^\circ\text{C}$	104 - 140 $\text{Å}^\circ\text{F}$	Injection Molding
Drying Temperature	70.0 - 80.0 $\text{Å}^\circ\text{C}$	158 - 176 $\text{Å}^\circ\text{F}$	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	0.981 - 1.96 MPa	142 - 284 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

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