

LG Chemical LUCON TR1000 PMMA+CNT

Category : Polymer , Thermoplastic , Acrylic (PMMA) , Acrylic, General Purpose, Molded

Material Notes:

Description: Injection Molding, PMMA+CNT, Transparency, Permanent Antistatic, Low Outgassing
Application: Wafer Carrier Cover, Pellicle

TrayCAS No. 9010-94-0 and 25053-09-2
Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUCON-TR1000-PMMACNT.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.16 g/cc	1.16 g/cc	ASTM D792
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

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.9 MPa @Thickness 3.20 mm	7970 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	30 % @Thickness 3.20 mm	30 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	85.3 MPa @Thickness 3.20 mm	12400 psi @Thickness 0.126 in	15mm/min; ASTM D790
Flexural Modulus	2.16 GPa @Thickness 3.20 mm	313 ksi @Thickness 0.126 in	15mm/min; ASTM D790
Izod Impact, Notched	>= 0.451 J/cm @Thickness 3.20 mm, Temperature 23.0 Â°C	>= 0.845 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	100 Â°C @Thickness 6.40 mm	212 Â°F @Thickness 0.252 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	90.0 Â°C @Thickness 6.40 mm	194 Â°F @Thickness 0.252 in	ASTM D648

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	ASTM D1003

Optical Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Surface Resistance	2.00e+12 ohm	2.00e+12 ohm	IEC 60093
Processing Properties	Metric	English	Comments
Rear Barrel Temperature	180 - 200 Å°C	356 - 392 Å°F	Injection Molding
Middle Barrel Temperature	190 - 210 Å°C	374 - 410 Å°F	Injection Molding
Front Barrel Temperature	200 - 220 Å°C	392 - 428 Å°F	Injection Molding
Nozzle Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Mold Temperature	40.0 - 60.0 Å°C	104 - 140 Å°F	Injection Molding
Drying Temperature	70.0 - 80.0 Å°C	158 - 176 Å°F	Injection Molding
Dry Time	2.00 - 4.00 hour	2.00 - 4.00 hour	Injection Molding
Back Pressure	0.490 - 0.981 MPa	71.1 - 142 psi	Injection Molding
Screw Speed	<= 80 rpm	<= 80 rpm	Injection Molding

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