

## LG Chemical Lupoy 1080-70 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

### Material Notes:

Description: LUPOY PC 1080-70 resin is designed for optical media discs applications. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength. Main Characteristics: Very low viscosity and Good mold release Applications: VCD, Audio-CD, DC-ROM, CD-R, CD-RW, CD-RAM and DVD, DVD-R, DVD-RW CAS: 103598-77-2 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-Lupoy-1080-70-Polycarbonate-Resin.php](http://www.lookpolymers.com/polymer_LG-Chemical-Lupoy-1080-70-Polycarbonate-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.32 %	0.32 %	equilibrium, 50% RH; ASTM D570
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Linear Mold Shrinkage, Flow	0.15 %	0.15 %	ASTM D570
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°F, Time 24.0 hour	
Melt Flow	70 g/10 min	70 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Â°C	@Load 2.65 lb, Temperature 572 Â°F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	58	58	ASTM D785
Hardness, Rockwell R	124	124	ASTM D785
Tensile Strength, Ultimate	48.0 MPa	6960 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ASTM D638
Elongation at Break	60 %	60 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	100 MPa	14500 psi	ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	ASTM D790

Mechanical Properties <i>Wood Impact, Notched</i>	2.668 J/cm Metric	4.998 ft-lb/in English	Comments <i>U.25 mm notch; ASTM D256</i>
	@Thickness 3.20 mm, Temperature 23.0 Â°C	@Thickness 0.126 in, Temperature 73.4 Â°F	
Dart Drop, Total Energy	520 J  @Thickness 3.20 mm	384 ft-lb  @Thickness 0.126 in	203m/min; ASTM D3763

Thermal Properties	Metric	English	Comments
CTE, linear	68.0 Âµm/m-Â°C  @Temperature -40.0 - 82.0 Â°C	37.8 Âµin/in-Â°F  @Temperature -40.0 - 180 Â°F	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	137 Â°C  @Thickness 4.00 mm	279 Â°F  @Thickness 0.157 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 Â°C  @Thickness 4.00 mm	255 Â°F  @Thickness 0.157 in	Unannealed; ASTM D648
Vicat Softening Point	147 Â°C  @Load 5.10 kg	297 Â°F  @Load 11.2 lb	50Â°C/hr; ASTM D1525
Softening Point	150 - 200 Â°C	302 - 392 Â°F	melting point per MSDS
Flash Point	>= 450 Â°C	>= 842 Â°F	

Optical Properties	Metric	English	Comments
Refractive Index	1.583	1.583	ASTM D542
Transmission, Visible	91 %	91 %	ASTM D1003

Descriptive Properties	Value	Comments
Autoignition Temperature	>450Â°C	

## Contact Songhan Plastic Technology Co.,Ltd.

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