

LG Chemical Lupoy 1603-06 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Description: LUPOY PC 1603-06 resin is designed for extrusion products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength. Main Characteristics: UV Stabilizer, High viscosity, Good mold release and High melt strength. Applications: Structure sheets and Multi-wall sheets. CAS: 103598-77-2. Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupoy-1603-06-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 Å°C	@Temperature 73.4 Å°F	
	0.15 %	0.15 %	ASTM D570
	@Temperature 23.0 Å°C, Time 86400 sec	@Temperature 73.4 Å°F, Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.00050 - 0.00070 cm/cm	0.00050 - 0.00070 in/in	ASTM D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 Å°C	@Load 2.65 lb, Temperature 572 Å°F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	56.0 MPa	8120 psi	ASTM D638
Tensile Strength, Yield	60.0 MPa	8700 psi	50mm/min; ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.30 GPa	334 ksi	ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	9.074 J/cm	17.00 ft-lb/in	0.25 mm notch; ASTM D256
	@Thickness 3.20 mm, Temperature 23.0 Å°C	@Thickness 0.126 in, Temperature 73.4 Å°F	

Mechanical Properties <i>Izod Impact, Unnotched</i>	^{MP} Metric	^{MP} English	Comments <i>ASTM D256</i>
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

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 1.8 MPa (264 psi)	126 Â°C @Thickness 4.00 mm	259 Â°F @Thickness 0.157 in	Annealed; ASTM D648
Vicat Softening Point	180 Â°C @Load 5.10 kg	356 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	1.586	1.586	ASTM D542
Haze	0.70 - 1.5 %	0.70 - 1.5 %	ASTM D1003
Transmission, Visible	89 %	89 %	ASTM D1003

Descriptive Properties	Value	Comments
Autoignition Temperature	>450Â°C	

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