

LG Chemical Lupoy 1621-02 Polycarbonate Resin

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Description: LUPOY PC 1621-02 resin is designed for large injection stretch blow molding and extrusion blow molding parts. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength. Main Characteristics: FDA compliance, High viscosity, Good mold release and Excellent impact resistance. Applications: 19L (5 gal) big water bottles. CAS: 103598-77-2. Information provided by LG Chemical

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-Lupoy-1621-02-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	
	0.15 %	0.15 %	ASTM D570
	@Temperature 23.0 Â°C, Time 86400 sec	@Temperature 73.4 Â°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	2.5 g/10 min	2.5 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
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ASTM D638
Tensile Strength, Yield	63.0 MPa	9130 psi	50mm/min; ASTM D638
Elongation at Break	90 %	90 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Tensile Modulus	2.28 GPa	330 ksi	ASTM D638
Flexural Yield Strength	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	2.40 GPa	348 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,	@Thickness 0.126 in,	

Mechanical Properties	Metric	English	Comments
Izod Impact, Unnotched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D256
Charpy Impact, Notched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	ISO 178

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)	142 Â°C @Thickness 4.00 mm	288 Â°F @Thickness 0.157 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	128 Â°C @Thickness 4.00 mm	262 Â°F @Thickness 0.157 in	Unannealed; ASTM D648
	137 Â°C @Thickness 4.00 mm	279 Â°F @Thickness 0.157 in	Annealed; ASTM D648
Vicat Softening Point	146 Â°C @Load 5.10 kg	295 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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