

Lupoy® 1600-03

Polycarbonate

LG Chem Ltd.

Message:

LUPOY PC 1600-03 resin is designed for extrusion products. It exhibits an excellent physical property balance of heat resistance, transparency and impact strength.

General Information			
Features	Good Impact Resistance		
	Good Melt Strength		
	High Clarity		
	High Heat Resistance		
	High Viscosity		
Uses	Compounding		
	Sheet		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption			ASTM D570
23°C, 24 hr	0.15	%	
Equilibrium, 23°C, 50% RH	0.32	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength			ASTM D638
Yield	60.0	MPa	
Break	72.0	MPa	
Tensile Elongation			ASTM D638
Yield	6.0	%	
Break	150	%	
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ¹ (23°C, 3.20 mm)	950	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648

0.45 MPa, Annealed, 4.00 mm	146	°C	
1.8 MPa, Unannealed, 4.00 mm	132	°C	
1.8 MPa, Annealed, 4.00 mm	143	°C	
Vicat Softening Temperature	151	°C	ASTM D1525 ²
CLTE - Flow (-40 to 82°C)	6.8E-5	cm/cm/°C	ASTM D696
Optical	Nominal Value	Unit	Test Method
Refractive Index	1.586		ASTM D542
Transmittance	89.0	%	ASTM D1003
Haze	0.70 to 1.5	%	ASTM D1003
NOTE			
1.	0.25 mm Notch Depth		
2.	Rate A (50°C/h), Loading 2 (50 N)		

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