

General Information
Product Description

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

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Latin America	
	• Europe	• North America	
Features	• Good Heat Resistance	• High Clarity	• High Viscosity
	• Good Impact Resistance	• High Melt Strength	
Uses	• Compounding	• Sheet	
Appearance	• Clear/Transparent		
Processing Method	• Extrusion		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / 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 (24 hr, 23°C)	0.15	%	ASTM D570
Water Absorption (Equilibrium, 23°C, 50% RH)	0.32	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2410	MPa	ASTM D638
Tensile Strength ² (Yield)	60.0	MPa	ASTM D638
Tensile Strength (Break)	72.0	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Tensile Elongation (Break)	150	%	ASTM D638
Flexural Modulus	2410	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ³ (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 0.45 MPa, Annealed, 4.00 mm	146	°C	ASTM D648
Deflection Temperature Under Load 1.8 MPa, Unannealed, 4.00 mm	132	°C	ASTM D648
Deflection Temperature Under Load 1.8 MPa, Annealed, 4.00 mm	143	°C	ASTM D648
Vicat Softening Temperature	151	°C	ASTM D1525 ⁴
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

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Lupoy® 1600-03

LG Chem Ltd. - Polycarbonate

Optical	Nominal Value	Unit	Test Method
Haze	0.700 to 1.50	%	ASTM D1003

Notes

¹ Typical properties: these are not to be construed as specifications.

² 0.125 in; 10 mil notch (3.2 mm; 0.25 mm notch).

³ 0.25 mm Notch Depth

⁴ Rate A (50°C/h), Loading 2 (50 N)