

General Information
Product Description

LUPLOY PC 1603-06 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	
Additive	• UV Stabilizer		
Features	• Good Impact Resistance	• Good Mold Release	• High Heat Resistance
	• Good Melt Strength	• High Clarity	• High Viscosity
Uses	• Sheet		
RoHS Compliance	• RoHS Compliant		
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)	6.0	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	2300	MPa	ASTM D638
Tensile Strength (Yield)	60.0	MPa	ASTM D638
Tensile Strength (Break)	56.0	MPa	ASTM D638
Tensile Elongation (Yield)	6.0	%	ASTM D638
Tensile Elongation (Break)	90	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Flexural Strength	96.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ² (23°C, 3.20 mm)	890	J/m	ASTM D256
Unnotched Izod Impact (23°C)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 4.00 mm	126	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ³
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	0.700 to 1.50	%	ASTM D1003

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Lupoy® 1603-06

LG Chem Ltd. - Polycarbonate

Notes

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

² 0.25 mm Notch Depth

³ Rate A (50°C/h), Loading 2 (50 N)