

# XENOY™ Resin 6370 - Europe

Polycarbonate + PBT

SABIC

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

30% glass-reinforced, impact modified thermoplastic alloy. Improved toughness and ductility.

### General

Material Status	• Commercial: Active
UL Yellow Card <sup>1</sup>	• E45329-236739
Search for UL Yellow Card	• SABIC • XENOY™ Resin
Availability	• Europe
Uses	• Appliances • Automotive Lighting • Automotive Under the Hood • Electrical Parts • Electrical/Electronic Applications • Electronic Displays • Heavy Transportation • Lawn and Garden Equipment • Medical/Healthcare Applications • Military/Defense Applications • Outdoor Applications
Also Available In	• Asia Pacific • Latin America • North America

Physical	Nominal Value Unit	Test Method
Density	1.44 g/cm <sup>3</sup>	ISO 1183
Melt Volume-Flow Rate (MVR) (250°C/5.0 kg)	12 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage <sup>3</sup>		Internal Method
Across Flow	0.40 to 0.80 %	
Flow	0.30 to 0.60 %	
Water Absorption		ISO 62
Saturation, 23°C	0.50 %	
Equilibrium, 23°C, 50% RH	0.15 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	8500 MPa	ISO 527-1/1
Tensile Stress (Break)	105 MPa	ISO 527-2/5
Tensile Strain (Break)	3.0 %	ISO 527-2/5
Flexural Modulus <sup>4</sup>	7750 MPa	ISO 178
Flexural Stress <sup>4, 5</sup>	160 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		
-30°C <sup>6</sup>	10 kJ/m <sup>2</sup>	ISO 179/1eA
23°C <sup>6</sup>	9.0 kJ/m <sup>2</sup>	ISO 179/1eA
23°C	16 kJ/m <sup>2</sup>	ISO 179/2C
Charpy Unnotched Impact Strength <sup>6</sup>		ISO 179/1eU
-30°C	22 kJ/m <sup>2</sup>	
23°C	35 kJ/m <sup>2</sup>	
Notched Izod Impact Strength <sup>7</sup>		ISO 180/1A
-30°C	6.0 kJ/m <sup>2</sup>	
23°C	10 kJ/m <sup>2</sup>	
Unnotched Izod Impact Strength <sup>7</sup>		ISO 180/1U
-30°C	42 kJ/m <sup>2</sup>	
23°C	44 kJ/m <sup>2</sup>	

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness (R-Scale)	109	ISO 2039-2
Ball Indentation Hardness (H 358/30)	100 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load <sup>8</sup>		
0.45 MPa, Unannealed, 4.00 mm, 100 mm Span	205 °C	ISO 75-2/Be
1.8 MPa, Unannealed, 4.00 mm, 100 mm Span	140 °C	ISO 75-2/Ae



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Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature		
--	150 °C	ISO 306/B120
--	148 °C	ISO 306/B50
--	212 °C	ISO 306/A50
Ball Pressure Test (123 to 127°C)	Pass	IEC 60695-10-2
CLTE		ISO 11359-2
Flow : 23 to 80°C	2.5E-5 cm/cm/°C	
Transverse : 23 to 80°C	1.1E-4 cm/cm/°C	
Thermal Conductivity	0.19 W/m/K	ISO 8302
RTI Elec	140 °C	UL 746B
RTI Imp	130 °C	UL 746B
RTI Str	140 °C	UL 746B
Electrical	Nominal Value Unit	Test Method
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+14 ohms·cm	IEC 60093
Electric Strength		IEC 60243-1
0.800 mm, in Oil	25 kV/mm	
1.60 mm, in Oil	21 kV/mm	
3.20 mm, in Oil	15 kV/mm	
Relative Permittivity		IEC 60250
50 Hz	3.70	
60 Hz	3.70	
1 MHz	3.50	
Dissipation Factor		IEC 60250
50 Hz	2.0E-3	
60 Hz	2.0E-3	
1 MHz	0.020	
Comparative Tracking Index		IEC 60112
--	300 V	
Solution B	125 V	
Flammability	Nominal Value Unit	Test Method
Flame Rating		UL 94
1.5 mm	HB	
3.0 mm	HB	
Glow Wire Flammability Index (3.2 mm)	750 °C	IEC 60695-2-12
Injection	Nominal Value Unit	
Drying Temperature	100 to 110 °C	
Drying Time	2.0 to 4.0 hr	
Suggested Max Moisture	0.020 %	
Hopper Temperature	40 to 60 °C	
Rear Temperature	230 to 250 °C	
Middle Temperature	240 to 265 °C	
Front Temperature	250 to 270 °C	
Nozzle Temperature	250 to 265 °C	
Processing (Melt) Temp	255 to 270 °C	
Mold Temperature	60 to 100 °C	



**Notes**

<sup>1</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Tensile Bar

<sup>4</sup> 2.0 mm/min

<sup>5</sup> at Break

<sup>6</sup> 80\*10\*4 sp=62mm

<sup>7</sup> 80\*10\*4 mm

<sup>8</sup> 120\*10\*4 mm



## XENOY™ Resin 6370 - Europe

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### Where to Buy

#### Supplier

**SABIC**

Web: <http://www.sabic.com/>

#### Distributor

**AECTRA**

Telephone: +33-4-72-54-36-42

Web: <https://www.aectra.fr/>

Availability: Bulgaria, Romania

**AGI-Augusto Guimarães & Irmão**

Telephone: +351-22753-7400

Web: <https://www.agi.pt/en/>

Availability: Portugal

**GRÄSSLIN**

Telephone: +49-7721-4040-261

Web: <https://www.graesslin-kunststoffe.de>

Availability: Germany

**Guzmán Polymers**

Telephone: +34-963-992-400

Web: <https://www.guzmanglobal.com/en/productos/plastics/>

Availability: Italy, Spain, Turkey

**Lenorplastics**

Telephone: +41-61-706-11-11

Web: <https://www.lenorplastics.ch>

Availability: Switzerland

**Plastoplan**

Telephone: +43-1-25040-0

Web: <https://www.plastoplan.com/>

Availability: Austria, Czech Republic, Hungary, Slovakia

**POLYMIX**

*POLYMIX is a Pan European distribution company. Contact POLYMIX for availability of individual products by country.*

Telephone: +33-3-8920-1380

Web: <http://www.polymix.eu/>

Availability: France

**RESINEX Group**

*RESINEX is a Pan European distribution company. Contact RESINEX for availability of individual products by country.*

Telephone: +32-14-672511

Web: <http://www.resinex.com/>

Availability: Europe

**Ultrapolymers**

*Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.*

Telephone: +32-11-57-95-57

Web: <http://www.ultrapolymers.com/>

Availability: Belgium, Netherlands, South Africa

