

# XYLEX™ Resin X7519HP - Europe

Polycarbonate + Polyester

SABIC

PROSPECTOR®

www.ulprospector.com

## Technical Data

### Product Description

Good Chemical Resistance, XYLEX grade with good dishwasher performance, USA/Europe Food Contact  
Comment: While molding of thicker parts, cooling speed has an influence of transparency. Thicker parts may form opaque areas in the centre due to slow cooling.

### General

Material Status	• Commercial: Active
Search for UL Yellow Card	• SABIC • XYLEX™ Resin
Availability	• Europe
Uses	• Appliances • Electrical Parts • Electronic Displays • Lawn and Garden Equipment • Non-specific Food Applications • Outdoor Applications
Also Available In	• Asia Pacific

Physical	Nominal Value Unit	Test Method
Density / Specific Gravity	1.19 g/cm <sup>3</sup>	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	13 g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (300°C/1.2 kg)	10 cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Flow (3.20 mm)	0.70 to 0.80 %	Internal Method
Water Absorption		ISO 62
Saturation, 23°C	0.16 %	
Equilibrium, 23°C, 50% RH	0.14 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus		
-- <sup>2</sup>	2470 MPa	ASTM D638
--	2370 MPa	ISO 527-1/1
Tensile Strength		
Yield <sup>3</sup>	58.0 MPa	ASTM D638
Yield	61.0 MPa	ISO 527-2/50
Break <sup>3</sup>	66.0 MPa	ASTM D638
Break	66.0 MPa	ISO 527-2/50
Tensile Elongation		
Yield <sup>3</sup>	2.0 %	ASTM D638
Yield	6.0 %	ISO 527-2/50
Break <sup>3</sup>	120 %	ASTM D638
Break	130 %	ISO 527-2/50
Flexural Modulus		
50.0 mm Span <sup>4</sup>	2240 MPa	ASTM D790
-- <sup>5</sup>	2030 MPa	ISO 178
Flexural Stress		
-- <sup>5,6</sup>	90.0 MPa	ISO 178
Yield, 50.0 mm Span <sup>4</sup>	98.0 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength <sup>7</sup> (23°C)	13 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact		
-30°C	100 J/m	ASTM D256
23°C	700 J/m	ASTM D256
-30°C <sup>8</sup>	8.0 kJ/m <sup>2</sup>	ISO 180/1A
23°C <sup>8</sup>	10 kJ/m <sup>2</sup>	ISO 180/1A
Instrumented Dart Impact		ASTM D3763
23°C, Total Energy	74.0 J	



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Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		
1.8 MPa, Unannealed, 3.20 mm	113 °C	ASTM D648
1.8 MPa, Unannealed, 4.00 mm, 64.0 mm Span <sup>8</sup>	112 °C	ISO 75-2/Af
Vicat Softening Temperature		
--	130 °C	ASTM D1525 <sup>9</sup> ISO 306/B50 <sup>9</sup>
--	132 °C	ISO 306/B120
CLTE		
Flow : -40 to 40°C	6.5E-5 cm/cm/°C	ASTM E831
Flow : -40 to 40°C	7.5E-5 cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	6.7E-5 cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	7.5E-5 cm/cm/°C	ISO 11359-2

Injection	Nominal Value Unit
Drying Temperature	85 to 100 °C
Drying Time	2.0 to 3.0 hr
Suggested Max Moisture	0.020 %
Suggested Shot Size	40 to 80 %
Hopper Temperature	50 °C
Rear Temperature	275 to 285 °C
Middle Temperature	280 to 290 °C
Front Temperature	290 to 300 °C
Nozzle Temperature	280 to 290 °C
Processing (Melt) Temp	280 to 300 °C
Mold Temperature	65 to 75 °C
Back Pressure	0.100 to 0.500 MPa
Screw Speed	20 to 100 rpm

## Injection Notes

- Drying Time (Cumulative): 8 hr

## Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 5.0 mm/min

<sup>3</sup> Type I, 50 mm/min

<sup>4</sup> 1.3 mm/min

<sup>5</sup> 2.0 mm/min

<sup>6</sup> at Yield

<sup>7</sup> 80\*10\*4 sp=62mm

<sup>8</sup> 80\*10\*4 mm

<sup>9</sup> Rate A (50°C/h), Loading 2 (50 N)



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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, Poland, 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

