

SABIC Innovative Plastics XYLEX X7519HP PC+POLYESTER (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-XYLEX-X7519HP-PCPOLYESTER-Europe-Africa-Middle-East.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.19 g/cc	1.19 g/cc	ASTM D792
Density	1.19 g/cc	0.0430 lb/in ³	ISO 1183
Moisture Absorption	0.140 %	0.140 %	23°C / 50% RH; ISO 62
Water Absorption at Saturation	0.16 %	0.16 %	ISO 62
Linear Mold Shrinkage, Flow	0.0070 - 0.0080 cm/cm @Thickness 3.20 mm	0.0070 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	12.5 g/10 min @Load 1.20 kg, Temperature 300 °C	12.5 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238
Melt Index of Compound	10 g/10 min @Load 1.20 kg, Temperature 300 °C	10 g/10 min @Load 2.65 lb, Temperature 572 °F	MVR [cm ³ /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.0 MPa	9570 psi	Type I, 50 mm/min; ASTM D638
	66.0 MPa	9570 psi	50 mm/min; ISO 527
Tensile Strength, Yield	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D638
	61.0 MPa	8850 psi	50 mm/min; ISO 527
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D638
	134 %	134 %	50 mm/min; ISO 527
Elongation at Yield	2.0 %	2.0 %	Type I, 50 mm/min; ASTM D638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.37 GPa	344 ksi	1 mm/min; ISO 527

Mechanical Properties	Metric 2.47 GPa	English 355 ksi	Comments 5 mm/min; ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
	98.0 MPa	14200 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.03 GPa	294 ksi	2 mm/min; ISO 178
	2.24 GPa	325 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	7.00 J/cm	13.1 ft-lb/in	ASTM D256
	1.00 J/cm @Temperature -30.0 °C	1.87 ft-lb/in @Temperature -22.0 °F	ASTM D256
Izod Impact, Notched (ISO)	10.0 kJ/m ²	4.76 ft-lb/in ²	80*10*4; ISO 180/1A
	8.00 kJ/m ² @Temperature -30.0 °C	3.81 ft-lb/in ² @Temperature -22.0 °F	80*10*4; ISO 180/1A
Charpy Impact, Notched	1.30 J/cm ²	6.19 ft-lb/in ²	Edgew 80*10*4 sp=62mm; ISO 179/1eA
Dart Drop, Total Energy	74.0 J	54.6 ft-lb	ASTM D3763
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	65.0 µm/m-°C	36.1 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
CTE, linear, Transverse to Flow	67.0 µm/m-°C	37.2 µin/in-°F	ASTM E 831
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
	75.0 µm/m-°C	41.7 µin/in-°F	ISO 11359-2
	@Temperature -40.0 - 40.0 °C	@Temperature -40.0 - 104 °F	
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	113 °C @Thickness 3.20 mm	235 °F @Thickness 0.126 in	unannealed; ASTM D648

Thermal Properties	Metric	English	Comments
	130 °C	266 °F	Rate B/50; ISO 306
	132 °C	270 °F	Rate B/120; ISO 306

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