

## SABIC Innovative Plastics Xylex HX7409HP PC+POLYESTER (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polyester, TP

### Material Notes:

Low flow, polycarbonate/Polyester alloy; contains mold release. For medical devices and pharmaceutical applications. Healthcare management of change (MoC), biocompatible (ISO 10993 or USP Class VI), food contact compliant. EtO and gamma sterilizable. This data was supplied by SABIC-IP for the Europe-Africa-Middle East region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xylex-HX7409HP-PCPOLYESTER-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xylex-HX7409HP-PCPOLYESTER-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D 792
Density	1.20 g/cc	0.0434 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.070 %	0.070 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.28 % @Temperature 23.0 <sup>o</sup> C	0.28 % @Temperature 73.4 <sup>o</sup> F	ISO 62
Linear Mold Shrinkage, Flow	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0060 - 0.0080 cm/cm @Thickness 3.20 mm	0.0060 - 0.0080 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 265 <sup>o</sup> C	3.0 g/10 min @Load 4.76 lb, Temperature 509 <sup>o</sup> F	ASTM D 1238
	15 g/10 min @Load 10.0 kg, Temperature 265 <sup>o</sup> C	15 g/10 min @Load 22.0 lb, Temperature 509 <sup>o</sup> F	[cm <sup>3</sup> /10 min] Melt Volume Rate; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	65.0 MPa	9430 psi	Type I, 50 mm/min; ASTM D 638
	65.0 MPa	9430 psi	50 mm/min; ISO 527
Tensile Strength, Yield	60.0 MPa	8700 psi	50 mm/min; ISO 527
	62.0 MPa	8990 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	110 %	110 %	Type I, 50 mm/min; ASTM D 638

Mechanical Properties	Metric	English	Comments : ISO 527
Elongation at Yield	6.0 %	6.0 %	Type I, 50 mm/min; ASTM D 638
	6.0 %	6.0 %	50 mm/min; ISO 527
Tensile Modulus	2.30 GPa	334 ksi	50 mm/min; ASTM D 638
	2.40 GPa	348 ksi	1 mm/min; ISO 527
Flexural Yield Strength	93.0 MPa	13500 psi	2 mm/min; ISO 178
	95.0 MPa	13800 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.18 GPa	316 ksi	2 mm/min; ISO 178
	2.28 GPa	331 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	0.800 J/cm @Temperature -30.0 Â°C	1.50 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	10.0 J/cm @Temperature 23.0 Â°C	18.7 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	6.00 kJ/mÂ² @Temperature -30.0 Â°C	2.86 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	15.0 kJ/mÂ² @Temperature 23.0 Â°C	7.14 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	78.0 kJ/mÂ² @Temperature 23.0 Â°C	37.1 ft-lb/inÂ² @Temperature 73.4 Â°F	63.5*12.7*3.2; ISO 180/4A
	2.20 J/cmÂ² @Temperature 23.0 Â°C	10.5 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	85.0 J @Temperature 23.0 Â°C	62.7 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	70.0 Âµm/m-Â°C	38.9 Âµin/in-Â°F	ASTM E 831
	@Temperature -40.0 -	@Temperature -40.0 -	

Thermal Properties	95.0 Å°C Metric	203 Å°F English	Comments
	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ISO 11359-2
CTE, linear, Transverse to Flow	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	
	@Temperature -40.0 - 95.0 Å°C	@Temperature -40.0 - 203 Å°F	ASTM E 831
	70.0 Åµm/m-Å°C	38.9 Åµin/in-Å°F	
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	122 Å°C	252 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Be
	122 Å°C	252 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	111 Å°C	232 Å°F	Edgew 120*10*4 sp=100mm; ISO 75/Ae
	111 Å°C	232 Å°F	
	@Thickness 3.20 mm	@Thickness 0.126 in	unannealed; ASTM D 648
Vicat Softening Point	127 Å°C	261 Å°F	Rate B/50; ISO 306
	129 Å°C	264 Å°F	Rate B/120; ISO 306
	130 Å°C	266 Å°F	Rate B/50; ASTM D 1525

Optical Properties	Metric	English	Comments
Transmission, Visible	79 %	79 %	
	@Thickness 2.54 mm	@Thickness 0.100 in	ASTM D 1003

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China