

## SABIC Innovative Plastics Xenoy® X5630Q PC+PET (Europe-Africa-Middle East)

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC)

### Material Notes:

Mineral filled PC/PET blend with high heat dimensional stability, low shrinkage and low CTE, especially for painted applications

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-X5630Q-PCPET-Europe-Africa-Middle-East.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-X5630Q-PCPET-Europe-Africa-Middle-East.php)

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption	0.140 %	0.140 %	23 <sup>o</sup> C / 50% RH; ISO 62
Water Absorption at Saturation	0.42 %	0.42 %	ISO 62
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	on Tensile Bar; SABIC Method
Melt Index of Compound	15 g/10 min @Load 5.00 kg, Temperature 265 <sup>o</sup> C	15 g/10 min @Load 11.0 lb, Temperature 509 <sup>o</sup> F	MVR [cm <sup>3</sup> /10 min]; ISO 1133

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	50.0 MPa	7250 psi	5 mm/min; ISO 527
Tensile Strength, Yield	56.0 MPa	8120 psi	5 mm/min; ISO 527
Elongation at Break	8.0 %	8.0 %	5 mm/min; ISO 527
Elongation at Yield	3.2 %	3.2 %	5 mm/min; ISO 527
Tensile Modulus	4.15 GPa	602 ksi	1 mm/min; ISO 527
Flexural Yield Strength	90.0 MPa	13100 psi	2 mm/min; ISO 178
Flexural Modulus	4.05 GPa	587 ksi	2 mm/min; ISO 178
Izod Impact, Notched (ISO)	8.00 kJ/m <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1A
	6.00 kJ/m <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	2.86 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	100 kJ/m <sup>2</sup>	47.6 ft-lb/in <sup>2</sup>	80*10*4; ISO 180/1U
	80.0 kJ/m <sup>2</sup> @Temperature -30.0 <sup>o</sup> C	38.1 ft-lb/in <sup>2</sup> @Temperature -22.0 <sup>o</sup> F	80*10*4; ISO 180/1U

Mechanical Properties	Metric	English	Comments
	./cm <sup>2</sup>	lb/in <sup>2</sup>	10*4 sp=62mm; ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	52.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 80.0 $\text{Å}^\circ\text{C}$	28.9 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 176 $\text{Å}^\circ\text{F}$	ISO 11359-2
CTE, linear, Transverse to Flow	72.0 $\mu\text{m}/\text{m}\cdot\text{Å}^\circ\text{C}$ @Temperature -30.0 - 80.0 $\text{Å}^\circ\text{C}$	40.0 $\mu\text{in}/\text{in}\cdot\text{Å}^\circ\text{F}$ @Temperature -22.0 - 176 $\text{Å}^\circ\text{F}$	ISO 11359-2
Deflection Temperature at 1.8 MPa (264 psi)	110 $\text{Å}^\circ\text{C}$	230 $\text{Å}^\circ\text{F}$	Flatw 80*10*4 sp=64mm; ISO 75/Af
Vicat Softening Point	137 $\text{Å}^\circ\text{C}$	279 $\text{Å}^\circ\text{F}$	Rate B/50; ISO 306
	140 $\text{Å}^\circ\text{C}$	284 $\text{Å}^\circ\text{F}$	Rate B/120; ISO 306

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