

## SABIC Innovative Plastics Xenoy<sup>®</sup> 5220 PBT+PC (Asia Pacific)

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

### Material Notes:

Unreinforced, polycarbonate-based polymer blend, excellent chemical resistance and impact. This data was supplied by SABIC-IP for the Asia Pacific region.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_SABIC-Innovative-Plastics-Xenoy-5220-PBTPC-Asia-Pacific.php](http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-Xenoy-5220-PBTPC-Asia-Pacific.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D 792
Water Absorption	0.12 %	0.12 %	ASTM D 570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	SABIC Method
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm	0.0080 - 0.010 in/in	on tensile bar; SABIC Method

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ASTM D 785
Tensile Strength at Break	58.0 MPa	8410 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	53.0 MPa	7690 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	120 %	120 %	Type I, 50 mm/min; ASTM D 638
Flexural Yield Strength	84.0 MPa	12200 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	2.04 GPa	296 ksi	1.3 mm/min, 50 mm span; ASTM D 790
Izod Impact, Notched	2.99 J/cm	5.60 ft-lb/in	ASTM D 256
	@Temperature -40.0 Å°C	@Temperature -40.0 Å°F	
Izod Impact, Notched	7.10 J/cm	13.3 ft-lb/in	ASTM D 256
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Izod Impact, Unnotched	32.04 J/cm	60.02 ft-lb/in	ASTM D 4812
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Mechanical Properties	Metric	English	Comments
Gardner Impact	54.0 J	39.8 ft-lb	ASTM D 3029
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	77.4 Åµm/m-Å°C	43.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 40.0 Å°C	@Temperature -40.0 - 104 Å°F	
	90.0 Åµm/m-Å°C	50.0 Åµin/in-Å°F	ASTM E 831
	@Temperature -40.0 - 95.0 Å°C	@Temperature -40.0 - 203 Å°F	
	110 Åµm/m-Å°C	61.1 Åµin/in-Å°F	ASTM E 831
	@Temperature 60.0 - 138 Å°C	@Temperature 140 - 280 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	106 Å°C	223 Å°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
Deflection Temperature at 1.8 MPa (264 psi)	98.0 Å°C	208 Å°F	unannealed; ASTM D 648
	@Thickness 6.40 mm	@Thickness 0.252 in	
UL RTI, Electrical	75.0 Å°C	167 Å°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Å°C	167 Å°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Å°C	167 Å°F	UL 746B
Flammability, UL94	HB	HB	UL 94
	@Thickness 1.47 mm	@Thickness 0.0579 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.40e+16 ohm-cm	2.40e+16 ohm-cm	ASTM D 257
Dielectric Constant	2.99	2.99	ASTM D 150
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.04	3.04	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.7 kV/mm	526 kV/in	in air; ASTM D 149
	@Thickness 3.20 mm	@Thickness 0.126 in	
Dissipation Factor	0.0020	0.0020	ASTM D 150

Electrical Properties	@Frequency 100 Hz Metric	@Frequency 100 Hz English	Comments
	0.019	0.019	ASTM D 150
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten, PLC code 5; ASTM D 495
Comparative Tracking Index	400 - 600 V	400 - 600 V	PLC code 1; UL 746A
Hot Wire Ignition, HWI	15 - 30 sec	15 - 30 sec	PLC code 3; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	0.000 - 10.0 mm/min	0.000 - 0.394 in/min	PLC code 0; UL 746A

## 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