SABIC Innovative Plastics XenoyÂ® X3515 PC+POLYESTER (Asia Pacific)

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

Material Notes:

Flame Retardant, Impact Modified, Opaque, Designed for outdoor telecommunication enclosure applications.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-X3515-PCPOLYESTER-Asia-Pacific.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	ASTM D 792
Density	1.30 g/cc	0.0470 lb/inÂ³	ISO 1183
Moisture Absorption at Equilibrium	0.15 %	0.15 %	23Â°C / 50% RH; ISO 62
Water Absorption at Saturation	0.50 % @Temperature 23.0 Â°C	0.50 % @Temperature 73.4 Â°F	ISO 62
Linear Mold Shrinkage, Flow	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Linear Mold Shrinkage, Transverse	0.0080 - 0.010 cm/cm @Thickness 3.20 mm	0.0080 - 0.010 in/in @Thickness 0.126 in	SABIC Method
Melt Flow	4.0 g/10 min @Load 2.16 kg, Temperature 250 Â°C	4.0 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ISO 1133
	4.0 g/10 min @Load 2.16 kg, Temperature 250 Â°C	4.0 g/10 min @Load 4.76 lb, Temperature 482 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	4.8 g/10 min @Load 2.16 kg, Temperature 250 Â°C	4.8 g/10 min @Load 4.76 lb, Temperature 482 Â°F	ASTM D 1238
	7.0 g/10 min @Load 2.16 kg, Temperature 265 Â°C	7.0 g/10 min @Load 4.76 lb, Temperature 509 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	8.0 g/10 min @Load 2.16 kg, Temperature 265 Â°C	8.0 g/10 min @Load 4.76 lb, Temperature 509 Â°F	ASTM D 1238
	13 g/10 min	13 g/10 min	[cm^3/10 min] Melt Volume Rate; ISO

Physical Properties	Metric	English	Comments
	@Load 5.00 kg, Temperature 250 Â°C	@Load 11.0 lb, Temperature 482 Â°F	1133
	15 g/10 min @Load 5.00 kg, Temperature 250 Â°C	15 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ISO 1133
	15.1 g/10 min @Load 5.00 kg, Temperature 250 Â°C	15.1 g/10 min @Load 11.0 lb, Temperature 482 Â°F	ASTM D 1238
	23 g/10 min @Load 5.00 kg, Temperature 265 Â°C	23 g/10 min @Load 11.0 lb, Temperature 509 Â°F	[cm^3/10 min] Melt Volume Rate; ISO 1133
	26.7 g/10 min @Load 5.00 kg, Temperature 266 Â°C	26.7 g/10 min @Load 11.0 lb, Temperature 511 Â°F	ASTM D 1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	40.0 MPa	5800 psi	50 mm/min; ISO 527
	42.0 MPa	6090 psi	Type I, 50 mm/min; ASTM D 638
Tensile Strength, Yield	47.0 MPa	6820 psi	50 mm/min; ISO 527
	52.0 MPa	7540 psi	Type I, 50 mm/min; ASTM D 638
Elongation at Break	44 %	44 %	Type I, 50 mm/min; ASTM D 638
	58 %	58 %	50 mm/min; ISO 527
Elongation at Yield	4.1 %	4.1 %	50 mm/min; ISO 527
	4.3 %	4.3 %	Type I, 50 mm/min; ASTM D 638
Tensile Modulus	1.96 GPa	284 ksi	1 mm/min; ISO 527
	2.15 GPa	312 ksi	5 mm/min; ASTM D 638
Flexural Yield Strength	71.0 MPa	10300 psi	2 mm/min; ISO 178
	72.0 MPa	10400 psi	1.3 mm/min, 50 mm span; ASTM D 790
Flexural Modulus	1.86 GPa	270 ksi	1.3 mm/min, 50 mm span; ASTM D 790
	1.89 GPa	274 ksi	2 mm/min; ISO 178
Izod Impact, Notched	4.27 J/cm @Temperature -40.0 Â°C	8.00 ft-lb/in @Temperature -40.0 Â°F	ASTM D 256

Mechanical Properties	Metric	English	Comments
	4.50 J/cm @Temperature -30.0 Â°C	8.43 ft-lb/in @Temperature -22.0 Â°F	ASTM D 256
	6.94 J/cm @Temperature -20.0 Â°C	13.0 ft-lb/in @Temperature -4.00 Â°F	ASTM D 256
	7.47 J/cm @Temperature 23.0 Â°C	14.0 ft-lb/in @Temperature 73.4 Â°F	ASTM D 256
Izod Impact, Notched (ISO)	40.0 kJ/mÂ² @Temperature -30.0 Â°C	19.0 ft-lb/inÂ² @Temperature -22.0 Â°F	80*10*4; ISO 180/1A
	43.0 kJ/mÂ² @Temperature -10.0 Â°C	20.5 ft-lb/inÂ² @Temperature 14.0 Â°F	80*10*4; ISO 180/1A
	47.0 kJ/mÂ² @Temperature 0.000 Â°C	22.4 ft-lb/inÂ² @Temperature 32.0 Â°F	80*10*4; ISO 180/1A
	53.0 kJ/mÂ² @Temperature 23.0 Â°C	25.2 ft-lb/inÂ² @Temperature 73.4 Â°F	80*10*4; ISO 180/1A
Charpy Impact, Notched	5.30 J/cmÂ² @Temperature 23.0 Â°C	25.2 ft-lb/inÂ² @Temperature 73.4 Â°F	V-notch Edgew 80*10*4 sp=62mm; ISO 179/1eA
Impact Test	56.0 J @Temperature -20.0 Â°C	41.3 ft-lb @Temperature -4.00 Â°F	Instrumented Impact, Energy @ peak; ASTM D 3763
	62.0 J @Temperature 23.0 Â°C	45.7 ft-lb @Temperature 73.4 Â°F	Instrumented Impact Total Energy; ASTM D 3763
	70.0 J @Temperature -30.0 Â°C	51.6 ft-lb @Temperature -22.0 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763
	74.0 J @Temperature -40.0 Â°C	54.6 ft-lb @Temperature -40.0 Â°F	Instrumented Impact Energy @ peak; ASTM D 3763

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	98.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	54.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	98.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	54.4 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	100 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	55.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	100 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	55.6 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
Deflection Temperature at 0.46 MPa (66 psi)	114 Â°C	237 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	110 Â°C @Thickness 3.20 mm	230 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	123 Â°C @Thickness 6.40 mm	253 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Deflection Temperature at 1.8 MPa (264 psi)	88.0 Â°C	190 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	74.0 Â°C @Thickness 3.20 mm	165 Â°F @Thickness 0.126 in	unannealed; ASTM D 648
	95.0 Â°C @Thickness 6.40 mm	203 Â°F @Thickness 0.252 in	unannealed; ASTM D 648
Vicat Softening Point	120 Â°C	248 Â°F	Rate B/50; ASTM D 1525
	120 Â°C	248 Â°F	Rate B/50; ISO 306
	122 Â°C	252 Â°F	Rate B/120; ISO 306
UL RTI, Electrical	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical with Impact	75.0 Â°C	167 Â°F	UL 746B
UL RTI, Mechanical without Impact	75.0 Â°C	167 Â°F	UL 746B
Flammability, UL94	V-0 @Thickness 1.47 mm	V-0 @Thickness 0.0579 in	UL 94 by SABIC-IP

Electrical Properties	Metric	English	Comments
Arc Resistance	120 - 180 sec	120 - 180 sec	Tungsten, PLC code 5; ASTM D 495
Comparative Tracking Index	>= 600 V	>= 600 V	PLC code 0; UL 746A
Hot Wire Ignition, HWI	30 - 60 sec	30 - 60 sec	PLC code 2; UL 746A
High Amp Arc Ignition, HAI	>= 120 arcs	>= 120 arcs	surface, PLC code 0; UL 746A
High Voltage Arc-Tracking Rate, HVTR	25.4 - 80.0 mm/min	1.00 - 3.15 in/min	PLC code 2; UL 746A

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