

XENOY™ X2420 resin

Polycarbonate + Polyester
SABIC Innovative Plastics Asia Pacific

Technical Data			
Product Description			
Xenoy®X2420 is a 10% glass filled, high flow, impact modified, injection moldable grade designed for high flow and impact strength. X2420 has enhanced melt flowability, impact ductility and broad color space.			
General			
Filler / Reinforcement	• Glass Fiber Reinforcement, 10% Filler by Weight		
Additive	• Impact Modifier		
Features	• Ductile • Good Flow	• High Flow • High Impact Resistance	• Impact Modified
Processing Method	• Injection Molding		
Physical			
	Nominal Value	Unit	Test Method
Specific Gravity	1.28 g/cm³		ASTM D792 ISO 1183
Melt Volume-Flow Rate (MVR)			ISO 1133
265°C/2.16 kg	12.0 cm³/10min		
300°C/1.2 kg	26.0 cm³/10min		
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.15 to 0.25 %		
Across Flow : 3.20 mm	0.30 to 0.40 %		
Water Absorption			ISO 62
Saturation, 23°C	0.020 %		
Equilibrium, 23°C, 50% RH	0.040 %		
Mechanical			
	Nominal Value	Unit	Test Method
Tensile Modulus ⁴	3800 MPa		ASTM D638
Tensile Strength			
Yield ⁵	50.0 MPa		ASTM D638
Yield	51.0 MPa		ISO 527-2/5
Break ⁵	35.0 MPa		ASTM D638
Break	37.0 MPa		ISO 527-2/5
Tensile Elongation			
Yield ⁵	3.0 %		ASTM D638
Yield	3.0 %		ISO 527-2/5
Break	7.0 %		ISO 527-2/5
Flexural Modulus ⁶ (50.0 mm Span)	3500 MPa		ASTM D790
Flexural Strength ⁶ (Yield, 50.0 mm Span)	90.0 MPa		ASTM D790
Impact			
	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ⁷			ISO 179/1eA
-30°C	7.0 kJ/m²		
23°C	15 kJ/m²		
Charpy Unnotched Impact Strength ⁷			ISO 179/1eU
-30°C	95 kJ/m²		
23°C	95 kJ/m²		



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Impact	Nominal Value Unit	Test Method
Notched Izod Impact		
23°C	210 J/m	ASTM D256
-30°C ⁸	8.0 kJ/m²	ISO 180/1A
23°C ⁸	14 kJ/m²	ISO 180/1A
Unnotched Izod Impact		
23°C	1600 J/m	ASTM D4812
-30°C ⁸	74 kJ/m²	ISO 180/1U
23°C ⁸	110 kJ/m²	ISO 180/1U
Instrumented Dart Impact		ASTM D3763
23°C, Total Energy	36.0 J	
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed, 3.20 mm	111 °C	
1.8 MPa, Unannealed, 3.20 mm	101 °C	
Vicat Softening Temperature	118 °C	ISO 306/B120
CLTE		
Flow : -40 to 40°C	0.000050 cm/cm/°C	ASTM E831
Flow : 23 to 80°C	0.000040 cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	0.000080 cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	0.000090 cm/cm/°C	ISO 11359-2
RTI Elec	75.0 °C	UL 746
RTI Imp	75.0 °C	UL 746
RTI Str	75.0 °C	UL 746
Flammability	Nominal Value Unit	Test Method
Flame Rating (0.400 mm)	HB	UL 94
Injection	Nominal Value Unit	
Drying Temperature	95.0 to 105 °C	
Drying Time	3.0 to 4.0 hr	
Drying Time, Maximum	8.0 hr	
Suggested Max Moisture	0.020 %	
Suggested Shot Size	30 to 80 %	
Hopper Temperature	60.0 to 80.0 °C	
Rear Temperature	250 to 280 °C	
Middle Temperature	255 to 290 °C	
Front Temperature	255 to 290 °C	
Nozzle Temperature	260 to 290 °C	
Processing (Melt) Temp	260 to 290 °C	
Mold Temperature	60.0 to 90.0 °C	
Back Pressure	0.300 to 0.700 MPa	
Screw Speed	40 to 70 rpm	
Vent Depth	0.038 to 0.076 mm	

