

XENOY™ X2500UV resin

Polycarbonate + PET

SABIC Innovative Plastics Europe

Message:

XENOY X2500UV is a medium viscosity, unfilled, UV stabilized, elastomer modified PC/PET blend with excellent heat and impact performance.
ISO1043-label: PC+PET-I.

General Information			
UL YellowCard	E45329-100083844		
Additive	Impact Modifier		
	UV Stabilizer		
Features	Good UV Resistance		
	High Heat Resistance		
	High Impact Resistance		
	Impact Modified		
	Medium Viscosity		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.21	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (265°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Melt Volume-Flow Rate (MVR) (265°C/1.2 kg)	4.00	cm ³ /10min	ISO 1133
Molding Shrinkage			Internal Method
Flow ¹	0.50 to 0.80	%	
Flow : 3.20 mm	0.50 to 0.80	%	
Across Flow ²	0.50 to 0.80	%	
Water Absorption			ISO 62
Saturation, 23°C	0.70	%	
Equilibrium, 23°C, 50% RH	0.20	%	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	95.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ³	2200	MPa	ASTM D638
--	2200	MPa	ISO 527-2/1
Tensile Strength			
Yield	53.0	MPa	ASTM D638

Yield ⁴	56.0	MPa	ASTM D638
Yield	57.0	MPa	ISO 527-2/50
Break ⁵	55.0	MPa	ASTM D638
Break	56.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	5.0	%	ASTM D638, ISO 527-2/50
Yield ⁶	5.0	%	ASTM D638
Break	100	%	ASTM D638
Break ⁷	80	%	ASTM D638
Break	70	%	ISO 527-2/50
Flexural Modulus			
50.0 mm Span ⁸	2150	MPa	ASTM D790
--	2100	MPa	ASTM D790
-- ⁹	2150	MPa	ISO 178
Flexural Strength			
--	79.0	MPa	ASTM D790
--	80.0	MPa	ISO 178
Yield, 50.0 mm Span ¹⁰	79.0	MPa	ASTM D790
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	20.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ¹¹			ISO 179/1eA
-30°C	30	kJ/m ²	
23°C	50	kJ/m ²	
Charpy Unnotched Impact Strength ¹² (-30°C)	No Break		ISO 179/1eU
Notched Izod Impact			
-30°C	200	J/m	ASTM D256
0°C	450	J/m	ASTM D256
23°C	600	J/m	ASTM D256
-40°C ¹³	15	kJ/m ²	ISO 180/1A
-30°C ¹⁴	25	kJ/m ²	ISO 180/1A
23°C ¹⁵	40	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ¹⁶ (-30°C)	No Break		ISO 180/1U
Instrumented Dart Impact (23°C, Total Energy)	60.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed, 64.0 mm Span ¹⁷	126	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	108	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁸	108	°C	ISO 75-2/Af
Vicat Softening Temperature			

--	135	°C	ASTM D1525, ISO 306/B50 12 ¹⁹
--	145	°C	ISO 306/A50
--	136	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
CLTE			
Flow : -40 to 40°C	8.0E-5	cm/cm/°C	ASTM E831
Flow : 23 to 80°C	8.2E-5	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Transverse : 23 to 80°C	8.7E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.18	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+14	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.30		
60 Hz	3.30		
1 MHz	3.10		
Dissipation Factor			IEC 60250
50 Hz	2.0E-3		
60 Hz	2.0E-3		
1 MHz	0.020		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm, Testing by SABIC)	HB		UL 94
Glow Wire Flammability Index (2.70 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110 to 120	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 to 80.0	°C	
Rear Temperature	240 to 270	°C	
Middle Temperature	250 to 275	°C	
Front Temperature	260 to 280	°C	
Nozzle Temperature	260 to 275	°C	
Processing (Melt) Temp	265 to 275	°C	
Mold Temperature	60.0 to 100	°C	
NOTE			
1.	Tensile Bar		
2.	Tensile Bar		
3.	50 mm/min		
4.	Type I, 50 mm/min		

5.	Type I, 50 mm/min
6.	Type I, 50 mm/min
7.	Type I, 50 mm/min
8.	1.3 mm/min
9.	2.0 mm/min
10.	1.3 mm/min
11.	80*10*4 sp=62mm
12.	80*10*4 sp=62mm
13.	80*10*4
14.	80*10*4
15.	80*10*4
16.	80*10*4
17.	80*10*4 mm
18.	80*10*4 mm
19.	Rate B (120°C/h), Loading 2 (50 N)

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