

XYLEX™ X2500UV resin

Polycarbonate + PET

SABIC Innovative Plastics Asia Pacific

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			
Additive	Impact modifier		
	UV stabilizer		
Features	UV Stabilized		
	Impact modification		
	Impact resistance, high		
	Heat resistance, high		
	Medium viscosity		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PC+PET-I		
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 - 0.80	%	Internal method
Flow: 3.20mm	0.50 - 0.80	%	Internal method
Transverse flow ²	0.50 - 0.80	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.70	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
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
Fracture ⁵	55.0	MPa	ASTM D638
Fracture	56.0	MPa	ISO 527-2/50
Tensile Elongation			
Yield	5.0	%	ASTM D638, ISO 527-2/50
Yield ⁶	5.0	%	ASTM D638
Fracture	100	%	ASTM D638
Fracture ⁷	80	%	ASTM D638
Fracture	70	%	ISO 527-2/50
Flexural Modulus			
50.0mm 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, 50.0mm 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	ISO 179/1eA
23°C	50	kJ/m ²	ISO 179/1eA
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, 64.0mm span ¹⁷	126	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 3.20mm	108	°C	ASTM D648
1.8 MPa, unannealed, 64.0mm span ¹⁸	108	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	135	°C	ASTM D1525, ISO 306/B50 11 ¹⁹

--	145	°C	ISO 306/A50
--	136	°C	ISO 306/B120
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			
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
Lateral: -40 to 40°C	8.5E-5	cm/cm/°C	ASTM E831
Lateral: 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
Dielectric Strength (3.20 mm, in Oil)	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.30		IEC 60250
60 Hz	3.30		IEC 60250
1 MHz	3.10		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	2.0E-3		IEC 60250
60 Hz	2.0E-3		IEC 60250
1 MHz	0.020		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.5 mm, Testing by SABIC)	HB		UL 94
Glow Wire Flammability Index (2.7 mm)	750	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	110 - 120	°C	
Drying Time	4.0 - 6.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60 - 80	°C	
Rear Temperature	240 - 270	°C	
Middle Temperature	250 - 275	°C	
Front Temperature	260 - 280	°C	
Nozzle Temperature	260 - 275	°C	
Processing (Melt) Temp	265 - 275	°C	
Mold Temperature	60 - 100	°C	
NOTE			
1.	Tensile Bar		
2.	Tensile Bar		
3.	50 mm/min		
4.	Type 1, 50mm/min		
5.	Type 1, 50mm/min		
6.	Type 1, 50mm/min		

7.	Type 1, 50mm/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.	标准 B (120°C/h), 载荷2 (50N)

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