

XENOY™ Resin T2NX2500UV

(PC+PET)

Saudi Basic Industries Corporation (SABIC)

Product Texts

XENOY™ RESIN T2NX2500UV is a ETP compound, which is formulated with 21wt% post-industrial recycled plastics.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	4	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	1.2	kg	-
ASTM Data			
Melt Flow Index, MFI	9	g/10min	ASTM D 1238
Temperature	265	°C	-
Load	2.16	kg	-

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2200	MPa	ISO 527
Yield stress	57	MPa	ISO 527
Yield strain	5	%	ISO 527
Stress at break	56	MPa	ISO 527
Strain at break	70	%	ISO 527
Flexural modulus, 23°C	2150	MPa	ISO 178
Flexural strength	80	MPa	ISO 178
Charpy impact strength, -30°C	N	kJ/m ²	ISO 179/1eU
Charpy notched impact strength, +23°C	50	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C	30	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	N	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	40	kJ/m ²	ISO 180/1A
Izod notched impact strength	15	kJ/m ²	ISO 180/1A
Temperature	-40	°C	-
Ball indentation hardness	95	MPa	ISO 2039-1
ASTM Data			
Tensile Modulus	2200	MPa	ASTM D 638
Tensile Strength at Yield	53	MPa	ASTM D 638
Tensile Strength at Break	55	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2100	MPa	ASTM D 790
Flexural Strength	79	MPa	ASTM D 790
Izod Impact notched, 1/8 in	600	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	200	J/m	ASTM D 256
Temperature	-30	°C	-

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	108	°C	ISO 75-1/-2
Vicat softening temperature, A	145	°C	ISO 306
Vicat softening temperature, B	135	°C	ISO 306
Coeff. of linear therm. expansion, parallel	82	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	87	E-6/K	ISO 11359-1/-2
Glow Wire Flammability Index (GWFI)	750	°C	IEC 60695-2-12
GWFI - thickness tested (1)	2.7	mm	-
ASTM Data			
UL 94 Flame rating	HB	-	UL 94
Thickness tested	1.5	mm	-
Coefficient of Thermal Expansion, MD	85	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	85	E-6/K	ASTM D 696
DTUL @ 264 psi	108	°C	ASTM D 648
Vicat Temperature	135	°C	ASTM D 1525

XENOY™ Resin T2NX2500UV

(PC+PET)

Saudi Basic Industries Corporation (SABIC)

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	3.1	-	IEC 62631-2-1
Dissipation factor, 1MHz	200	E-4	IEC 62631-2-1
Volume resistivity	1E12	Ohm*m	IEC 62631-3-1
Surface resistivity	1E15	Ohm	IEC 62631-3-2
Electric strength	17	kV/mm	IEC 60243-1

Other properties	Value	Unit	Test Standard
Water absorption	0.7	%	Sim. to ISO 62
Humidity absorption	0.2	%	Sim. to ISO 62
Density	1210	kg/m ³	ISO 1183
Density	1210	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	4 - 5	h	-
Processing humidity	≤0.02	%	-
Melt temperature	265 - 275	°C	-
Mold temperature	60 - 100	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	240 - 270	°C	-
Zone 2	250 - 275	°C	-
Zone 3	260 - 280	°C	-
Nozzle temperature	260 - 275	°C	-

Characteristics**Processing**

Injection Molding

Special Characteristics

High impact or impact modified, U.V. stabilized or stable to weather, Heat stabilized or stable to heat

Certifications

Recycled Resin Content

Applications

Automotive

Regional Availability

Europe