

XENOY™ Resin T2NX5230

(PC+PET)-MX16

Saudi Basic Industries Corporation (SABIC)

Product Texts

is a ETP compound, which is formulated with 29wt% post-industrial recycled plastics.

Processing/Physical Characteristics

	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	24	cm ³ /10min	ISO 1133
Temperature	265	°C	-
Load	5	kg	-
ASTM Data			
Melt Flow Index, MFI	28	g/10min	ASTM D 1238
Temperature	265	°C	-
Load	5	kg	-

Mechanical properties

	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3850	MPa	ISO 527
Yield stress	58	MPa	ISO 527
Yield strain	3.6	%	ISO 527
Stress at break	42	MPa	ISO 527
Strain at break	9	%	ISO 527
Flexural modulus, 23°C	3750	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Charpy notched impact strength, +23°C	10	kJ/m ²	ISO 179/1eA
Izod impact strength, +23°C	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	10	kJ/m ²	ISO 180/1A
Izod notched impact strength	7	kJ/m ²	ISO 180/1A
Temperature	-30	°C	-

Thermal properties

	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	109	°C	ISO 75-1/-2
Vicat softening temperature, B	137	°C	ISO 306
Coeff. of linear therm. expansion, parallel	54	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	74	E-6/K	ISO 11359-1/-2

Other properties

	Value	Unit	Test Standard
Water absorption	0.42	%	Sim. to ISO 62
Humidity absorption	0.14	%	Sim. to ISO 62
Density	1330	kg/m ³	ISO 1183

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
Pre-drying - Temperature	110 - 120	°C	-
Pre-drying - Time	4 - 6	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

Applications

Automotive, Electrical and Electronical, Medical

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Special Characteristics

Heat stabilized or stable to heat

Regional Availability

Europe

Certifications

Recycled Resin Content