

XENOY™ FR Resin ENH2900

(PC+PBT)

Saudi Basic Industries Corporation (SABIC)

Product Texts

XENOY ENH2900 compound is based on Polycarbonate / Polybutylene Terephthalate (PC/PBT) blend. Added features of this grade include: Non-Chlorinated, Non-Brominated Flame Retardant, Good Flow, Impact Modified and Improved Chemical Resistance.

UL Yellow Card [E207780-100801552](https://www.ul.com/yellowcard/E207780-100801552)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Melt Flow Index, MFI	26	g/10min	ASTM D 1238
Temperature	266	°C	-
Load	5	kg	-
Mold Shrinkage, MD	0.0065	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2500	MPa	ISO 527
Yield stress	67	MPa	ISO 527
Yield strain	4.2	%	ISO 527
Stress at break	44	MPa	ISO 527
Strain at break	56	%	ISO 527
Flexural modulus, 23°C	2500	MPa	ISO 178
Flexural strength	95	MPa	ISO 178
Izod impact strength, +23°C	137	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	6.7	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	2480	MPa	ASTM D 638
Tensile Strength at Yield	63	MPa	ASTM D 638
Tensile Strength at Break	42	MPa	ASTM D 638
Elongation at Yield	4	%	ASTM D 638
Elongation at Break	65	%	ASTM D 638
Flexural Modulus	2240	MPa	ASTM D 790
Flexural Strength	89	MPa	ASTM D 790
Izod Impact notched, 1/8 in	550	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	82	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.1	mm	-
Yellow Card available	yes	-	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	2.5	mm	-
Yellow Card available	yes	-	-
ASTM Data			
DTUL @ 264 psi	78	°C	ASTM D 648
Vicat Temperature	102	°C	ASTM D 1525

Other properties	Value	Unit	Test Standard
Density	1200	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	3 - 4	h	-
Processing humidity	≤0.04	%	-

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Melt temperature	245 - 275	°C	-
Mold temperature	60 - 80	°C	-
Zone 1	220 - 255	°C	-
Zone 2	220 - 265	°C	-
Zone 3	245 - 275	°C	-
Nozzle temperature	245 - 275	°C	-
Screw speed	40 - 70	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant, High impact or impact modified

Chemical Resistance

General Chemical Resistance

ApplicationsBuilding Construction, IT / Business Machine, Electrical and
Electronical, Medical**Regional Availability**

North America, Europe, Asia Pacific, South and Central America