

# XENOY™ ENH2900 resin

Polycarbonate + PBT

SABIC Innovative Plastics Asia Pacific

## Message:

XENOY ENH2900 is a Non-Brominated, Non Chlorinated flame retarded PC/PBT resin with good flow, high impact and excellent chemical resistance. It was designed quite suitable for E&E housing applications

General Information			
UL YellowCard	E207780-100801552		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Good Chemical Resistance		
	Good Flow		
	High Impact Resistance		
Uses	Electrical Housing		
	Electrical/Electronic Applications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (266°C/5.0 kg)	26	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.20 mm)	0.50 to 0.80	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus <sup>1</sup>	2480	MPa	ASTM D638
Tensile Strength <sup>2</sup>			ASTM D638
Yield	63.0	MPa	
Break	42.0	MPa	
Tensile Elongation <sup>3</sup>			ASTM D638
Yield	4.0	%	
Break	65	%	
Flexural Modulus <sup>4</sup> (50.0 mm Span)	2240	MPa	ASTM D790
Flexural Strength <sup>5</sup> (Yield, 50.0 mm Span)	89.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	550	J/m	ASTM D256
Instrumented Dart Impact (23°C, Total Energy)	65.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	78.0	°C	ASTM D648

Vicat Softening Temperature	102	°C	ASTM D1525 <sup>6</sup>
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.10 mm	V-1		
1.50 mm	V-0		
2.50 mm	5VB		
Injection	Nominal Value	Unit	
Drying Temperature	82.2 to 87.8	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 to 80	%	
Rear Temperature	221 to 254	°C	
Middle Temperature	221 to 266	°C	
Front Temperature	243 to 277	°C	
Nozzle Temperature	243 to 277	°C	
Processing (Melt) Temp	243 to 277	°C	
Mold Temperature	60.0 to 82.2	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	40 to 70	rpm	
Vent Depth	0.038 to 0.076	mm	
NOTE			
1.	50 mm/min		
2.	Type I, 50 mm/min		
3.	Type I, 50 mm/min		
4.	1.3 mm/min		
5.	1.3 mm/min		
6.	Rate B (120°C/h), Loading 2 (50 N)		

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#### Recommended distributors for this material

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