

XENOY™ 2230 resin

Polycarbonate + PET
SABIC Innovative Plastics

Message:

Unreinforced, opaque, polycarbonate-based polymer alloy. Offers chemical resistance, dimensional stability and mechanical performance.

General Information	
UL YellowCard	E121562-221077
Features	Good Chemical Resistance
	Good Dimensional Stability
Appearance	Opaque
Processing Method	Injection Molding
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)
	Elastic Modulus vs Temperature (ASTM D4065)
	Flexural DMA (ASTM D4065)
	Instrumented Impact (Energy) (ASTM D3763)
	Instrumented Impact (Load) (ASTM D3763)
	Pressure-Volume-Temperature (PVT - Zoller Method)
	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.22	g/cm ³	ASTM D792
Specific Volume	0.824	cm ³ /g	ASTM D792
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.60 to 0.90	%	
Across Flow ¹	0.60 to 0.90	%	
Water Absorption			ASTM D570
24 hr	0.14	%	
Equilibrium, 23°C	0.60	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ² (Yield)	55.2	MPa	ASTM D638

Tensile Elongation ³ (Break)	120	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	2240	MPa	ASTM D790
Flexural Strength ⁵ (Yield, 50.0 mm Span)	86.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	800	J/m	ASTM D256
Gardner Impact (23°C)	54.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 6.40 mm	129	°C	
1.8 MPa, Unannealed, 6.40 mm	121	°C	
CLTE			ASTM E831
Flow : -40 to 40°C	5.4E-5	cm/cm/°C	
Transverse : -40 to 40°C	6.1E-5	cm/cm/°C	
RTI Elec	75.0	°C	UL 746
RTI Imp	75.0	°C	UL 746
RTI Str	75.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.1E+16	ohms · cm	ASTM D257
Dielectric Strength (3.20 mm, in Air)	21	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
100 Hz	3.60		
1 MHz	3.20		
Dissipation Factor			ASTM D150
100 Hz	2.0E-3		
1 MHz	5.0E-3		
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.813 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	110	°C	
Drying Time	4.0 to 6.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.020	%	
Suggested Shot Size	50 to 80	%	
Rear Temperature	249 to 271	°C	
Middle Temperature	254 to 277	°C	
Front Temperature	260 to 282	°C	
Nozzle Temperature	254 to 277	°C	
Processing (Melt) Temp	260 to 282	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.345 to 0.552	MPa	
Screw Speed	50 to 80	rpm	
Vent Depth	0.013 to 0.020	mm	

NOTE	
1.	Tensile Bar
2.	Type I, 50 mm/min
3.	Type I, 50 mm/min
4.	1.3 mm/min
5.	1.3 mm/min

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