

# XENOY™ RESIN 2230

REGION AMERICAS

## DESCRIPTION

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

## TYPICAL PROPERTY VALUES

Revision 20230510

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, yld, Type I, 50 mm/min	55	MPa	ASTM D638
Tensile Strain, brk, Type I, 50 mm/min	120	%	ASTM D638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	86	MPa	ASTM D790
Flexural Modulus, 1.3 mm/min, 50 mm span	2240	MPa	ASTM D790
Hardness, Rockwell R	115	-	ASTM D785
<b>IMPACT</b>			
Izod Impact, notched, 23°C	801	J/m	ASTM D256
Gardner, 23°C	54	J	ASTM D3029
<b>THERMAL</b>			
HDT, 0.45 MPa, 6.4 mm, unannealed	129	°C	ASTM D648
HDT, 1.82 MPa, 6.4 mm, unannealed	121	°C	ASTM D648
CTE, -40°C to 40°C, flow	5.4E-05	1/°C	ASTM E831
CTE, -40°C to 40°C, xflow	6.12E-05	1/°C	ASTM E831
Relative Temp Index, Elec	75	°C	UL 746B
Relative Temp Index, Mech w/impact	75	°C	UL 746B
Relative Temp Index, Mech w/o impact	75	°C	UL 746B
<b>PHYSICAL</b>			
Specific Gravity	1.22	-	ASTM D792
Specific Volume	0.82	cm <sup>3</sup> /g	ASTM D792
Water Absorption, (23°C/24hrs)	0.14	%	ASTM D570
Water Absorption, (23°C/Saturated)	0.6	%	ASTM D570
Mold Shrinkage, flow, 3.2 mm	0.6 – 0.9	%	SABIC method
Mold Shrinkage on Tensile Bar, xflow	0.6 – 0.9	%	SABIC method
<b>ELECTRICAL</b>			
Volume Resistivity	2.1E+16	Ω.cm	ASTM D257
Dielectric Strength, in air, 3.2 mm	21.2	kV/mm	ASTM D149
Relative Permittivity, 100 Hz	3.6	-	ASTM D150
Relative Permittivity, 1 MHz	3.2	-	ASTM D150
Dissipation Factor, 100 Hz	0.002	-	ASTM D150
Dissipation Factor, 1 MHz	0.005	-	ASTM D150
<b>FLAME CHARACTERISTICS</b>			
UL Recognized, 94HB Flame Class Rating	0.81	mm	UL 94
<b>INJECTION MOLDING</b>			
Drying Temperature	110	°C	
Drying Time	4 – 6	Hrs	

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time (Cumulative)	8	Hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260 – 280	°C	
Nozzle Temperature	255 – 275	°C	
Front - Zone 3 Temperature	260 – 280	°C	
Middle - Zone 2 Temperature	255 – 275	°C	
Rear - Zone 1 Temperature	250 – 270	°C	
Mold Temperature	65 – 95	°C	
Back Pressure	0.3 – 0.6	MPa	
Screw Speed	50 – 80	rpm	
Shot to Cylinder Size	50 – 80	%	
Vent Depth	0.013 – 0.02	mm	

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