

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
MECHANICAL			
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
IMPACT			
Izod Impact, notched, 23°C	801	J/m	ASTM D256
Gardner, 23°C	54	J	ASTM D3029
THERMAL			
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
PHYSICAL			
Specific Gravity	1.22	-	ASTM D792
Specific Volume	0.82	cm³/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
ELECTRICAL			
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
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating	0.81	mm	UL 94
INJECTION MOLDING			
Drying Temperature	110	°C	
Drying Time	4 – 6	Hrs	

© 2024 Copyright by SABIC. All rights reserved

CHEMISTRY THAT MATTERS™



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	

DISCLAIMER

Any sale by SABIC, its subsidiaries and affiliates (each a "seller"), is made exclusively under seller's standard conditions of sale (available upon request) unless agreed otherwise in writing and signed on behalf of the seller. While the information contained herein is given in good faith, SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED, INCLUDING MERCHANTABILITY AND NONINFRINGEMENT OF INTELLECTUAL PROPERTY, NOR ASSUMES ANY LIABILITY, DIRECT OR INDIRECT, WITH RESPECT TO THE PERFORMANCE, SUITABILITY OR FITNESS FOR INTENDED USE OR PURPOSE OF THESE PRODUCTS IN ANY APPLICATION. Each customer must determine the suitability of seller materials for the customer's particular use through appropriate testing and analysis. No statement by seller concerning a possible use of any product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right.

