

Xenoy* Resin 5230 Americas: COMMERCIAL

Unreinforced PBT+PC alloy. Excellent impact/chemical resistance and dimensional stability.

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	54	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	110	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	85	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	2130	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	640	J/m	ASTM D 256
Izod Impact, notched, -30°C	213	J/m	ASTM D 256
Izod Impact, notched, -40°C	170	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	50	J	ASTM D 3763
Instrumented Impact Energy @ peak, -40°C	56	J	ASTM D 3763
THERMAL			
HDT, 0.45 MPa, 6.4 mm, unannealed	115	°C	ASTM D 648
HDT, 1.82 MPa, 6.4 mm, unannealed	96	°C	ASTM D 648
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 D 792
Specific Volume	0.82	cm³/g	ASTM D 792
Water Absorption, 24 hours	0.12	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.6 - 0.9	%	SABIC Method
ELECTRICAL			
Volume Resistivity	5.3E+16	Ohm-cm	ASTM D 257
Dielectric Strength, in air, 1.6 mm	27.9	kV/mm	ASTM D 149
Dielectric Strength, in air, 3.2 mm	18.3	kV/mm	ASTM D 149

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity.
All properties, expect the melt volume rate are measured on injection moulded samples.
All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose.Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented this or any other material under actual fire conditions.
4) Own measurement according to UL.

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TYPICAL PROPERTIES ¹	TYPICAL VALUE	UNIT	STANDARD
ELECTRICAL			
Relative Permittivity, 100 Hz	3.04	-	ASTM D 150
Relative Permittivity, 1 MHz	3.14	-	ASTM D 150
Dissipation Factor, 100 Hz	0.002	-	ASTM D 150
Dissipation Factor, 1 MHz	0.03	-	ASTM D 150
FLAME CHARACTERISTICS			
UL Recognized, 94HB Flame Class Rating (3)	1.49	mm	UL 94

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Source, GMD, Last Update:10/31/2000









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TYPICAL VALUE	UNIT	
110	S°	
4 - 6	hrs	
8	hrs	
0.02	%	
260 - 275	S°	
255 - 270	S°	
255 - 275	C°	
250 - 270	C°	
245 - 265	°C	
65 - 90	°C	
0.3 - 0.7	MPa	
50 - 80	rpm	
50 - 80	%	
0.013 - 0.02	mm	
	110 4 - 6 8 0.02 260 - 275 255 - 270 255 - 275 250 - 270 245 - 265 65 - 90 0.3 - 0.7 50 - 80 50 - 80	

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