XENOY™ RESIN 5720

REGION AMERICAS

DESCRIPTION

UR, PBT+PC alloy. Outstanding low temperature impact/chemical resistance.

TYPICAL PROPERTY VALUES

Revision 20190702

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	49	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	165	%	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	68	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1720	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	3204	J/m	ASTM D 4812
Izod Impact, notched, 23°C	801	J/m	ASTM D 256
Izod Impact, notched, -40°C	534	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	48	J	ASTM D 3763
Instrumented Impact Energy @ peak, -40°C	55	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	1.17	-	ASTM D 792
Specific Volume	0.85	cm^3/g	ASTM D 792
Water Absorption, 24 hours	0.13	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	1 – 1.2	%	SABIC method
ELECTRICAL			
Volume Resistivity	9.5E+16	Ohm-cm	ASTM D 257
Dielectric Strength, in air, 1.6 mm	28.7	kV/mm	ASTM D 149
Dielectric Strength, in air, 3.2 mm	19.8	kV/mm	ASTM D 149
Relative Permittivity, 100 Hz	2.93	-	ASTM D 150
Relative Permittivity, 1 MHz	2.95	-	ASTM D 150
Dissipation Factor, 100 Hz	0.002	-	ASTM D 150
Dissipation Factor, 1 MHz	0.03	-	ASTM D 150
FLAME CHARACTERISTICS			
UL Yellow Card Link	E121562-220839	-	-
UL Recognized, 94HB Flame Class Rating	1.49	mm	UL 94
INJECTION MOLDING			
Drying Temperature	110	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Drying Time	4 – 6	hrs	
Drying Time (Cumulative)	8	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	260 – 275	°C	
Nozzle Temperature	255 – 270	°C	
Front - Zone 3 Temperature	255 – 275	°C	
Middle - Zone 2 Temperature	250 – 270	°C	
Rear - Zone 1 Temperature	245 – 265	°C	
Mold Temperature	65 – 90	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	50 – 80	rpm	
Shot to Cylinder Size	50 – 80	%	
Vent Depth	0.013 – 0.02	mm	

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