



XENOY™ Resin X5601WX
Americas: COMMERCIAL

Impact modified PBT+PC+PET, Heat aging improved XENOY

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	550	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 50 mm/min	450	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 50 mm/min	5	%	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	93	%	ASTM D 638
Tensile Modulus, 50 mm/min	23300	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	830	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	22500	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 50 mm/min	53	MPa	ISO 527
Tensile Stress, break, 50 mm/min	50	MPa	ISO 527
Tensile Strain, yield, 50 mm/min	4	%	ISO 527
Tensile Strain, break, 50 mm/min	118	%	ISO 527
Flexural Stress, yield, 2 mm/min	82	MPa	ISO 178
Flexural Stress, break, 2 mm/min	2142	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	83	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	25	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	560	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	62	kJ/m ²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	18	kJ/m ²	ISO 180/1A
THERMAL			
Vicat Softening Temp, Rate B/50	131	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	124	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	101	°C	ASTM D 648

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.
(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
(4) Internal measurements according to UL standards.
(5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.
(6) Needs hard coat to consistently pass 60 sec Vertical Burn.

Source GMD, last updated:
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THERMAL			
CTE, -40°C to 40°C, flow	7.04E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.16E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	7.04E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.16E-05	1/°C	ISO 11359-2
Vicat Softening Temp, Rate B/50	130	°C	ISO 306
Vicat Softening Temp, Rate B/120	132	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	98	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.23	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm (5)	1	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm (5)	1	%	SABIC Method
Melt Flow Rate, 266°C/5.0 kgf	14	g/10 min	ASTM D 1238
Density	1.22	g/cm³	ISO 1183
Melt Volume Rate, MVR at 265°C/5.0 kg	14	cm³/10 min	ISO 1133

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