

# XENOY™ RESINS

XENOY™ resins are a versatile semi-crystalline family of polycarbonate (PC) blended with polybutylene terephthalate (PBT) and/or polyethylene terephthalate (PET), used across industries in a broad variety of production processes and applications.

		MVR	FLEXURAL MODULUS	VICAT SOFTENING TEMP	IMPACT
<b>GENERAL PURPOSE - UNREINFORCED.</b>					
CL100S	PC/PBT Low temperature ductility, UV stable.	20	2200	127	46
CL101	PC/PBT Improved impact, paintable.	13	2050	123	50
X5100	PC/PBT High flow.	13*	2150	120	45
X2500UV	PC/PET Elastomer modified, paintable without primer	9***	2200	136	40
<b>HIGH CHEMICAL RESISTANCE</b>					
XL1562	PBT/PC UV stable.	27	2100	128	45
<b>HIGH MODULUS</b>					
X4850	PC/PBT, mineral filled (12%)	4**	3800	135	20
X5230	PC/PET, mineral filled, low CTE, excellent surface quality (15%)	24**	3800	140	10
X5630P	PC/PET, mineral filled, good surface quality (19%)	15**	4100	140	8
1760T	PC/PBT, glass filled (11%)	14	4500	130	3
6370	PC/PBT, glass filled (30%)	12	8500	150	10
	<b>Standard</b>	ISO1033	ISO527	ISO306	ISO180/1A
	<b>Unit</b>	cm <sup>3</sup> /10min	MPa	°C	J/m *kJ/m <sup>2</sup>
	<b>Condition</b>	250°C/5kg *250°C/2.16kg **265°C/5.0 kg ***265°C/2.16kg		B/120	Izod Impact, Notched +23°C

## GENERAL VALUE PROPOSITION

### MECHANICAL PERFORMANCE

- Good impact performance at lower temperatures
- Wide modulus range (3 - 7 GPa)

### CHEMICAL RESISTANCE

- Fuels, lubricants, solvents, cleaning fluids, disinfectants, adhesives

### WEATHERABILITY

- UV stabilized versions and inherent special weatherable grades exist for optimal mechanical
- Color retention, according to SAEJ1960, J1885 and G26

### DIMENSIONAL STABILITY

- Dimensional stability under sunload or paint-curing temperatures up to 120°C
- Dimensional stability vs. other crystalline thermoplastic materials: Low moisture absorption, low shrinkage, low warpage, low CTE

### RELATIVE COMPARISON OF PROPERTIES

	SABIC® PP	LEXAN™ PC	CYCOLOY™ PC/ABS	GELOY™ PC/ASA	XENOY™ PC/PBT	VALOX™ PBT	XYLEX™ PC/Polyester	SABIC® PMMA	CYCOLAC™ ABS
Processability	+++	+	++	++	0	++	+	++	+++
Low Temperature Impact	+	+	++	+	+++	0	+	-	+
Heat	0	+++	++	++	++	+++	++	+	+
Non-halogenated FR available	Yes	Yes	Yes	Yes	N.A.	No	N.A.	N.A.	No
UV Stability	-	+	+	++	++	++	++	++	-
Weatherability	-	+	0	++	++	++	++	++	-
Colorability	+++	++	++	+	+	+	+	++	+++
Aesthetics	++	++	+	+	+	+	+	++	++
Paintability	0	++	++	++	++	0	++	++	++
Density	+++	+	+	+	+	+	+	+	++
Modulus/Impact balance	+	+	++	+	++	0	++	0	++
Transparency	No	Yes	No	No	No	No	Yes	Yes	No

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