

GLOBAL PRODUCT LINE:

CYCOLOY™ RESINS

CYCOLOY resins are amorphous PC/ABS blends or PC blends that offer the excellent processability of ABS materials and the superior mechanical properties and heat resistance of polycarbonate (PC) resins.

MFR: 260°C/2.16kg(Δ5kg); IZOD impact Notched +23°C J/m²;
UL 94 flame class rating

CARE COMPLIANCE - ISO 10993 & USP VI COMPLIANT

		MFR	IMPACT	VICAT	UL LISTING	PROMOTABLE REGION
HCX1640	Low viscosity, Bio-compatible, improved Knit line.	18 [^]	550	130	-	GLOBAL

STRUCTURAL – LOW WARPAGE

XCM830	Medium viscosity, 3.1GPa, low CTE, balance between high impact and stiffness	9 [^]	500	138	-	GLOBAL
XCM840	Medium viscosity, 4GPa, lower CTE, balance between impact and stiffness	10 [^]	135	138	-	GLOBAL
CM6210	Medium viscosity, 3.5GPa, Extrusion	12 [^]	50045	106	V0@1.5mm	GLOBAL
BM5225Y*	Medium viscosity, 6GPa, non-brominated, non-chlorinated FR	12	50	98	V1@0.8mm V0@1.5mm	GLOBAL
CM6140	Medium viscosity, 3.3GPa, non-brominated, non-chlorinated FR	17	200	102	V0@0.8mm	PAC
CM6240	Medium viscosity, 4.4GPa, non-brominated, non-chlorinated FR	16	86	100	V0@0.8mm	PAC

FLAME RETARDANCY – THIN WALL non-brominated, non-chlorinated FR

CX7240	Medium viscosity, impact & Flow	18	700	110	V0@0.75 – 5VB/1.5	GLOBAL
CX7240U	Medium viscosity, impact & Flow, UV stable	16	500	106	V0@0.75 – 5VB/1.5	GLOBAL
CX7211	Medium viscosity, thinnest wall @ 5VA, good impact-flow balance	15	625	105	V0@1.5 – 5VA/2.5	GLOBAL
CX2142ME	Low viscosity, improved chemical resistance to general hospital cleaners	22	600	102	V0@1.2 – 5VB/2.0	GLOBAL
CX2244ME	Medium viscosity, improved chemical resistance to general hospital cleaners	18	700	110	V0@0.75 – 5VB/1.5	GLOBAL
BX7241*	Low viscosity, thinnest wall @V0	18	690	111	V1@0.5 – V0@0.6	PAC

FLAME RETARDANCY – IMPACT non-brominated, non-chlorinated FR

C6600	Low viscosity, high flow-impact balance, hydrolytic stable	21	550	105	V0@1.5 - 5VB/2.0	GLOBAL
CY6110	Low viscosity, higher flow, better hydrolytic stable	23	475	104	V0@1.5 – 5VB/2.5	GLOBAL
CY6310	Low viscosity, high heat, better impact-flow balance, hydrolytic stable	20	600	110	V0@1.5 – 5VA/2.9	GLOBAL
CY6414	Medium viscosity, high heat, BPT125C pass	15 [^]	796	134	V0@1.2 – 5VB/2.5	GLOBAL
C3650	Medium viscosity, extrusion, halogen free according to DIN VDE 0472/815	8 [^]	694	108	V0@1.5 – 5VB/2.5	AMR/PAC
CE3510	Medium viscosity, extrusion, high heat M1/F2/I2 classification@2mm according NF F 16-101	8 [^]	664	116	V0@1.5mm	EMEA
CS9610	Medium viscosity, low smoke	15 [^]	800	124	V0@2.0 – 5VB/2.0	PAC
CY6025	Low viscosity, highest flow	28	273	95	V0@1.2 – 5VB/1.5	PAC

*under LEXAN™ brand name

Typical values only. This document is made available for introductory purposes.

General Value Proposition

CARE COMPLIANCE

- Biocompatibility assessed (according to ISO 10993 or USP Class VI)
- Superior heat, flow and impact balance as compared with conventional PC/ABS blends
- Improved hydro stability and chemical resistance
- Enhanced weld line properties
- Wider processing window for ease of molding

STRUCTURAL – LOW WARPAGE

- Available with non Br-&Cl- flame retardant system meeting varies UL-94 V0 Ratings
- Variety of stiffness and flow with balanced heat and practical impact for different wall thickness design
- Good aesthetics with all color capable and good paint-ability
- Lower CTE with good dimensional stability / low shrinkage

FLAME RETARDANCY

Thin Wall – Improved flame retardancy to meet thinner wall UL94 ratings, able to achieve below 1mm thickness

- Non Br & Cl flame retardant system
- Improved weld line performance
- Improved impact and heat with flow balance
- Ease of molding for productivity
- Enhanced Hydrolytic & chemical resistance
- Portfolio designed to meet governmental regulations & voluntary ECO labels including RoHS, TCO, Blue Angel and others

Impact – Meet UL94 ratings over wide range of gauges

- Non Br & Cl flame retardant system
- Portfolio designed to meet governmental regulations & voluntary ECO labels including RoHS, TCO, Blue Angel and others
- Variety of melt flow offerings with balanced impact & heat performance

	SABIC® PP	LEXAN™	CYCOLOY™	GELOY™	XENOY™	CYCOLAC™	VALOX™
Property	PP	PC	PC/ABS	PC/ASA	PC/PBT	ABS	PBT
Processability	+++	+	++	++	0	+++	+++
Low Temp. Impact	+	+	++	+	+++	+	0
Heat	0	+++	++	++	++	+	+++
UV Stability	-	+	+	++	++	-	++
Weatherability	-	+	0	++	++	-	++
Colorability	+++	++	++	+	+	+++	++
Aesthetics	++	++	+	+	+	++	+
Paintability	0	++	++	++	++	++	0
Density	+++	+	+	+	+	++	+
Modulus/Impact balance	+	+	++	+	++	++	0

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