

INNOVATIVE PLASTICS

PRODUCT LINE GUIDE: CYCOLOY™ RESINS

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



NON-FLAME RETARDANT CYCOLOY RESINS

MVR: 260°C/5KG, CM³/10MIN; FLEXURAL MODULUS, 2MM/MIN, MPA;
IZOD IMPACT, NOTCHED, +23°C, KJ/M²; VICAT B120 SOFTENING TEMP, °C;
UL 94 FLAME CLASS RATING

Select CYCOLOY resins - PC/ABS blends for various applications in the automotive and other industries offering excellent balance of flow and impact. High heat resistance and excellent property retention after hydrolytic and heat aging.

		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING
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XCY620S	Preferred non flame retardant grade for various applications	20	2200	55	130	
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New Generation CYCOLOY resins - PC/ABS/PET blends offering excellent weld line strength, a good balance of mechanical impact, flow and heat. Containing PET with the possibility of post consumer recycle (PCR)

EXCY0316	25% PET - similar properties as C1100HF, low gloss	21	2150	55	126	
EXCY0341	35% PET - high gloss, high heat	20	2250	52	138	

General Purpose CYCOLOY resins - PC/ABS blends for various applications

C1200HF	High heat PC/ABS blend offering high flow and high impact	22	2300	40	134	HB/1.2-3.0
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Glass Reinforced CYCOLOY resins - high heat PC/ABS

C4210HF	10% glass filled, offering high flow and high stiffness	33	4250	8	136	HB/1.5-3.0
C4215HF	15% glass filled, offering high flow and high stiffness	31	4700	8	137	HB/1.5-3.0
C4220	20% glass filled, offering medium flow and high stiffness	12	5300	8	137	HB/1.5-3.0

Mineral Reinforced CYCOLOY resins - high heat PC/ABS blends offering high modulus / low CTE (thermal expansion) and good surface quality

XCM830	8% mineral filled, offering high impact	9	3100	45	140	-
XCM851	19% mineral filled, offering good practical impact	9	4400	12	140	-

Hydrolytically stable CYCOLOY resins - medium heat PC/ABS blend offering hydrolytic and heat aging stability

XCY620	High flow and high (low temperature) impact, for automotive interior applications	18	2200	55	129	-
XCY630	High flow and high (low temperature) impact, for automotive interior applications	25	2200	50	127	-
CU1650	UV stabilized, offering high flow and high (low temperature) impact, for various applications	25	2200	65	127	HB/1.5-3.0

CYCOLOY resins for plating - medium heat PC/ABS blend offering medium flow and high impact for plating applications

CP8320	Medium heat plating grade for automotive applications	13	2000	55	107	-
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CYCOLOY resins for healthcare - high heat PC/ABS blend for medical devices and pharmaceutical applications. Biocompatible according to ISO10993 or USP Class VI.

HC1204HF	High flow and high impact	24	2300	50	128	HB/1.2-3.0
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CYCOLOY resins for extrusion - high heat PC/ABS blend offering excellent extrusion and thermoforming characteristics

CE1810	18% mineral reinforced, offering good practical impact, high modulus / low CTE and good surface quality	6	4450	10	141	-
CE1821	8% mineral reinforced, offering high impact, high modulus / low CTE and good surface quality	10	3000	35	140	-
CE3500	Blow molding/extrusion grade offering low temperature ductility, high heat resistance and high melt strength. Next generation of C3100.	2	1900	50	136	





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UL 94 FLAME CLASS RATING

Flame Retardant simplified general purpose CYCOLOY resins - PC/ABS blends for various FR UL 94 V0 applications. Non brominated and non chlorinated flame retardant systems.

		MVR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL LISTING	
CY2110	Good hydrolytic stability and high flow. Flame retardant ABS replacement	16	2700	15	107	V0/1.5	5VB/2.0
CY2010	High flow, low heat grade for large applications. Flame retardant ABS replacement	31	2600	10	92	V0/1.5	5VA/3.0
C2800	Uses Eco FR (non-brominated and non-chlorinated) flame retardant systems, offering balanced flow and impact properties for various applications	15	2600	30	95	V0/1.5	5VB/2.3
C2950	Uses Eco FR (non-brominated and non-chlorinated) flame retardant systems, offering balanced flow and impact properties for various applications	12	2700	40	112	V0/1.5	5VB/2.3
C6600	Uses Eco FR (non-brominated and non-chlorinated) flame retardant systems, offering hydrolytic stability and good flow for a wide variety of thin wall or large size applications including business equipment and enclosures, among others	16	2700	15	107	V0/1.5	5VB/2.0
CY5005	Uses Eco FR (non-brominated and non-chlorinated) flame retardant systems, offering high flow for a wide variety of thin wall or large size applications including enclosures and TV bezels	31	2630	10	92	V0/2.0	-

Flame Retardant CYCOLOY EXL resins - PC/ABS blends using Eco FR (non-brominated and non-chlorinated) flame retardant systems for thin wall applications

CX7211	Offering excellent thin wall, 2.5mm UL95 5VA rating and good impact/flow balance	13	2500	25	105	V0/1.5	5VB/2.0
CX7240	Offering excellent thin wall UL94 FR ratings (V0/0.75mm, 5VA/3mm, 5VB/1.5mm) and good impact/flow balance	15	2500	25	113	V0/0.75	5VB/1.5
CX7110	Offering hydrolytic stability, good weldline strength and excellent flow for a wide variety of thin wall or large size applications including business equipment and enclosures, among others	21	2700	15	103	V0/1.2	5VB/1.8

Flame Retardant improved/strategic CYCOLOY resins - PC/ABS blends using Eco FR (non-brominated and non-chlorinated) flame retardant systems

CY6010	Offering high flow and thin wall UL94 FR ratings (V0/1.5mm) for thin wall applications or FR PS replacement	34	2630	10	92	V0/1.5	-
CY6110	Offering hydrolytic stability and high flow/impact balance for a wide variety of thin wall or large size applications including business equipment and enclosures, among others	23	2440	30	106	V0/1.5	5VB/2.5
CY6310	Offering hydrolytic stability, good flow and thin wall UL94 FR ratings (V0/1.5mm, 5VB/2.3mm, 5VA/2.9mm) for a wide variety of thin wall or large size application and flame retardant ABS replacement	20	2650	50	111	V0/1.5	5VB/2.3 - 5VA/2.9
CY6414	Offering hydrolytic stability, high heat (BPT 125 °C) and thin wall UL94 FR ratings (V0/1.2mm, 5VB/2.5mm) for a wide variety of thin wall applications and potential C1200(HF) replacement	13 ¹	2470	52	134	V0/1.2	5VB/2.5

Flame Retardant Glass Reinforced CYCOLOY resins - PC/ABS blends for injection molding purposes

CM4219	15% glass filled, high flow	17	/	9	99	V1/1.5	
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Flame Retardant CYCOLOY HMD resins - PC/ABS blend using Eco FR (non-brominated and non-chlorinated) flame retardant systems, offering high impact and excellent extrusion and thermoforming characteristics. Halogen free according to DIN VDE 0472/815 for cable channels

CM6210	12% mineral filled	15	3550	38	114	V0/1.5	-
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Flame Retardant CYCOLOY extrusion resins - PC/ABS blend using non-brominated and non-chlorinated flame retardant systems, offering high impact and excellent extrusion and thermoforming characteristics. Halogen free according to DIN VDE 0472/815 for cable channels

C3650	Eco FR, high impact	8	2700	45	110	V0/1.5	5VB/2.5
CE3510	Eco FR, high heat	8	2700	50	117	V0/1.5	-

Flame Retardant CYCOLOY special resins

CX2244ME	Improved chemical resistance	15	2500	40	113	V0/0.75	5VB/1.5
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¹260°C, 5kg

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