

CYCOLAC™ RESINS

CYCOLAC™ ABS resins are terpolymers which are formed by blending an amorphous thermoplastic copolymer of acrylonitrile (A) and Styrene (S) and an elastomeric component which is usually polybutadiene or a butadiene copolymer (B). The flexibility offered by the use of the three monomer systems allows the property profile to be tailored to meet a broad range of end-use requirements.

GENERAL PURPOSE		MFR	FLEXURAL MODULUS	IZOD IMPACT	VICAT SOFTENING TEMP	UL94 LISTING
G320A	Balanced flow / impact. Good low temperature toughness.	8	1700	32	99	HB/1.5
MG47F	Multi-purpose, injection molding ABS. (FDA compliant)	18	2300	22	100	HB/1.5
MG94F	High flow (FDA compliant)	12*	2450	18	100	HB/1.5
EXTRUSION						
EX58F	High impact ABS for sheet extrusion and blow molding applications. (FDA compliant)	4	2000	35	97	HB/1.5
HIGH HEAT						
DL100	High impact, low emissions ABS/PC blend.	8**	2250	35	105	HB/1.5
DL100LG	High impact, low emissions ABS/PC blend. Low gloss	10**	2200	28	105	HB/1.5
	Standard	ISO1033	ISO178	ISO180/1A	ISO306	UL94
	Unit	g/10min	MPa	kJ/m2	°C	Flame class rating x mm
	Condition	220°C/10kg		Notched		
		* 220°C/5kg		+23°C	B/120	
		** 260°C/5kg				

GENERAL VALUE PROPOSITION

GENERAL PURPOSE

- Excellent colorability
- Good low temperature ductility
- High dimensional stability
- Good electrical propositions
- Good paintability

RELATIVE COMPARISON OF PROPERTIES

	SABIC® PP	LEXAN™	CYCOLOY™	GELOY™	XENOY™	VALOX™	XYLEX™	SABIC® PMMA	CYCOLAC™
Property	PP	PC	PC/ABS	PC/ASA	PC/PBT	PBT	PC/ Polyester	PMMA	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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