CYCOLAC™ Resin INPBMAT
Europe-Africa-Middle East: COMMERCIAL

Cross-linked SAN in styrenic matrix. Provides excellent gloss reduction properties. Maintains original polymer properties such as impact etc. Compatible with various polymer such as PVC and ABS. Can be used in low gloss ABS products at typical loading around 5PHR. Can be effectively compounded with ABS and other styrenic thermoplastics in molded, extruded or calendered applications to provide excellent gloss reduction properties without losing other physical performance.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Flexural Stress, yld, 1.3 mm/min, 50 mm span	330	kgf/cm²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	37700	kgf/cm²	ASTM D 790
Flexural Stress, yield, 2 mm/min	38	MPa	ISO 178
Flexural Modulus, 2 mm/min	3400	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	1	cm-kgf/cm	ASTM D 256
Izod Impact, notched 80*10*4 +23°C	2	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*4 -30°C	1	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	94	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
Vicat Softening Temp, Rate B/50	100	°C	ISO 306
Vicat Softening Temp, Rate B/120	102	°C	ISO 306
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	87	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.07	-	ASTM D 792
Density	1.07	g/cm³	ISO 1183
Melt Flow Rate, 220°C/10.0 kg	0	g/10 min	ISO 1133

(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:

PLEASE CONTACT YOUR LOCAL SALES OFFICE FOR AVAILABILITY IN YOUR AREA