

Cycolac* Resin GLB2960

Americas: LIMITED USE

Blowmoldable. Medium flow, super high impact, excellent melt strength and regrind stability. High level of toughness at reduced temperatures.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	33	MPa	ASTM D 638
Tensile Modulus, 5 mm/min	1650	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	56	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	1650	MPa	ASTM D 790
Hardness, Rockwell R	92	-	ASTM D 785
ІМРАСТ	Value	Unit	Standard
Izod Impact, notched, 23°C	459	J/m	ASTM D 256
Izod Impact, notched, -40°C	240	J/m	ASTM D 256
Falling Dart Impact, 23°C	51	J	SABIC Method
THERMAL	Value	Unit	Standard
HDT, 0.45 MPa, 6.4 mm, unannealed	92	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.08E-04	1/°C	ASTM E 831
Relative Temp Index, Elec	60	°C	UL 746B
Relative Temp Index, Mech w/impact	60	°C	UL 746B
Relative Temp Index, Mech w/o impact	60	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.02	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.8	%	SABIC Method
Melt Flow Rate, 220°C/10.0 kgf	2.7	g/10 min	ASTM D 1238
Melt Viscosity, 232°C, 100 sec-1	19700	poise	ASTM D 3825
FLAME CHARACTERISTICS	Value	Unit	Standard
UL Recognized, 94HB Flame Class Rating (3)	1.47	mm	UL 94
UL Recognized, 94-5VB Rating (3)	2.48	mm	UL 94

Processing

Parameter		
Extrusion Blow Molding	Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	5 - 4	hrs
Drying Time (Cumulative)	24	hrs
Maximum Moisture Content	0.02 - 0.04	%
Minimum Moisture Content	0.04	%
Melt Temperature (Parison)	210 - 225	°C
Barrel - Zone 1 Temperature	190 - 220	°C
Barrel - Zone 2 Temperature	190 - 220	°C
Barrel - Zone 3 Temperature	190 - 220	°C
Barrel - Zone 4 Temperature	190 - 220	°C

Source GMD, last updated:12/29/1999

Adapter - Zone 5 Temperature	195 - 220	°C
Head - Zone 6 - Top Temperature	195 - 220	°C
Head - Zone 7 - Bottom Temperature	195 - 220	°C
Screw Speed	20 - 60	rpm
Extruder Feed Zone Temperature	60 - 80	°C
Mold Temperature	40 - 90	°C
Die Temperature	195 - 220	°C

Source GMD, last updated:12/29/1999

• Purge with HDPE prior to changing screw, head, or die tooling and/or machine shutdown.

• For extended downtime, lower barrel, head and die temperatures to 95°C (200°F).

THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(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.

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