

CYCOLOY™ LG9000 resin

Polycarbonate + ABS
SABIC Innovative Plastics

Message:
PC+ABS blend, low gloss and UV-stable, suitable for automotive interior applications.

General Information	
UL YellowCard	E121562-221063
Features	Good UV Resistance
	Low Gloss
Uses	Automotive Interior Parts
Processing Method	Injection Molding
Multi-Point Data	Coefficient of Thermal Expansion vs. Temperature (ASTM E831)
	Flexural DMA (ASTM D4065)
	Instrumented Impact (Energy) (ASTM D3763)
	Instrumented Impact (Load) (ASTM D3763)
	Pressure-Volume-Temperature (PVT - Zoller Method)
	Shear DMA (ASTM D4065)
	Specific Heat vs. Temperature (ASTM D3417)
	Tensile Creep (ASTM D2990)
	Tensile Fatigue
	Tensile Stress vs. Strain (ASTM D638)
	Thermal Conductivity vs. Temperature (ASTM E1530)
	Viscosity vs. Shear Rate (ASTM D3835)

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.13	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17	g/10 min	ASTM D1238
Molding Shrinkage			Internal Method
Flow : 3.20 mm	0.50 to 0.70	%	
Across Flow : 3.20 mm	0.50 to 0.70	%	
Water Absorption			ASTM D570
24 hr	0.10	%	
Equilibrium, 23°C	0.40	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	54.5	MPa	ASTM D638
Tensile Elongation ² (Break)	75	%	ASTM D638

Flexural Modulus ³ (50.0 mm Span)	2310	MPa	ASTM D790
Flexural Strength ⁴ (Yield, 50.0 mm Span)	84.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C	320	J/m	
23°C	530	J/m	
Instrumented Dart Impact			ASTM D3763
-30°C, Total Energy	33.9	J	
23°C, Total Energy	40.7	J	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.20 mm	124	°C	
0.45 MPa, Unannealed, 6.40 mm	129	°C	
1.8 MPa, Unannealed, 3.20 mm	107	°C	
1.8 MPa, Unannealed, 6.40 mm	110	°C	
Vicat Softening Temperature	129	°C	ASTM D1525 ⁵
CLTE			ASTM E831
Flow : -20 to 150°C	7.2E-5	cm/cm/°C	
Transverse : -20 to 150°C	7.2E-5	cm/cm/°C	
Thermal Conductivity	0.20	W/m/K	ASTM C177
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI Str	60.0	°C	UL 746
Electrical	Nominal Value		Test Method
Arc Resistance ⁶	PLC 6		ASTM D495
Comparative Tracking Index (CTI)	PLC 2		UL 746
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Optical	Nominal Value		Test Method
Gardner Gloss (60°, Untextured)	30		ASTM D523
Injection	Nominal Value	Unit	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 to 80	%	
Rear Temperature	249 to 288	°C	
Middle Temperature	254 to 293	°C	
Front Temperature	260 to 302	°C	
Nozzle Temperature	274 to 302	°C	

Processing (Melt) Temp	274 to 302	°C
Mold Temperature	60.0 to 87.8	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	40 to 70	rpm
Vent Depth	0.038 to 0.076	mm

NOTE

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|----|------------------------------------|
| 1. | Type I, 50 mm/min |
| 2. | Type I, 50 mm/min |
| 3. | 1.3 mm/min |
| 4. | 1.3 mm/min |
| 5. | Rate B (120°C/h), Loading 2 (50 N) |
| 6. | Tungsten Electrode |

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