

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	E207780-523226		
Features	Gloss, low		
	Good UV resistance		
Uses	Car interior parts		
Processing Method	Injection molding		
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: 3.20mm	0.50 - 0.70	%	Internal method
Transverse flow: 3.20mm	0.50 - 0.70	%	Internal method
Water Absorption			ASTM D570
24 hr	0.10	%	ASTM D570
Equilibrium, 23°C	0.40	%	ASTM D570
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	ASTM D256
23°C	530	J/m	ASTM D256
Instrumented Dart Impact			ASTM D3763
-30°C, Total Energy	33.9	J	ASTM D3763
23°C, Total Energy	40.7	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.20mm	124	°C	ASTM D648
0.45 MPa, unannealed, 6.40mm	129	°C	ASTM D648

1.8 MPa, unannealed, 3.20mm	107	°C	ASTM D648
1.8 MPa, unannealed, 6.40mm	110	°C	ASTM D648
Vicat Softening Temperature	129	°C	ASTM D1525 ⁵
Linear thermal expansion coefficient			ASTM E831
Flow: -20 to 150°C	7.2E-5	cm/cm/°C	ASTM E831
Lateral: -20 to 150°C	7.2E-5	cm/cm/°C	ASTM E831
Thermal Conductivity	0.20	W/m/K	ASTM C177
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	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 - 110	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Suggested Max Moisture	0.040	%	
Suggested Shot Size	30 - 80	%	
Rear Temperature	249 - 288	°C	
Middle Temperature	254 - 293	°C	
Front Temperature	260 - 302	°C	
Nozzle Temperature	274 - 302	°C	
Processing (Melt) Temp	274 - 302	°C	
Mold Temperature	60.0 - 87.8	°C	
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 70	rpm	
Vent Depth	0.038 - 0.076	mm	
NOTE			
1.	Type 1, 50mm/min		
2.	Type 1, 50mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	标准 B (120°C/h), 载荷2 (50N)		
6.	Tungsten electrode		

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