

CYCOLOY™ LG9000 resin

Polycarbonate + ABS

SABIC Innovative Plastics

Message:

CYCOLOY LG9000 is a low gloss PC+ABS injection moulding grade. LG9000 combines good impact / heat and UV resistance with a low gloss surface appearance. It is suitable for automotive interior applications.

General Information			
Features	Gloss, low		
	Impact resistance, good		
	Good UV resistance		
	Heat resistance, high		
Uses	Car interior parts		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	20.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow ¹	0.50 - 0.70	%	Internal method
Water Absorption			ISO 62
Saturated, 23°C	0.60	%	ISO 62
Equilibrium, 23°C, 50% RH	0.20	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	116		ISO 2039-2
Ball Indentation Hardness (H 358/30)	93.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2300	MPa	ISO 527-2/1
Tensile Stress			
Yield	50.0	MPa	ISO 527-2/5, ISO 527-2/50
Fracture	40.0	MPa	ISO 527-2/5
Fracture	45.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/5, ISO 527-2/50
Yield	4.0	%	ISO 527-2/5, ISO 527-2/50
Fracture	10	%	ISO 527-2/5, ISO 527-2/50
Flexural Modulus ²	2400	MPa	ISO 178
Flexural Stress	81.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	82.0	mg	Internal method
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	20	kJ/m ²	ISO 179/1eA
23°C	45	kJ/m ²	ISO 179/1eA
Notched Izod Impact ⁴			ISO 180/1A
-30°C	20	kJ/m ²	ISO 180/1A
23°C	45	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁵			
0.45 MPa, unannealed, 100 mm span	120	°C	ISO 75-2/Be
1.8 MPa, unannealed, 100 mm span	97.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	122	°C	ISO 306/B50
--	124	°C	ISO 306/B120
Ball Pressure Test			IEC 60695-10-2
75°C	Pass		IEC 60695-10-2
110°C ⁶	Pass		IEC 60695-10-2
Linear thermal expansion coefficient			ISO 11359-2
Flow: -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
Lateral: -40 to 40°C	8.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity	0.20	W/m/K	ISO 8302
RTI Elec	60.0	°C	UL 746
RTI Imp	60.0	°C	UL 746
RTI	60.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Dielectric Strength			IEC 60243-1
0.800mm, in oil	35	kV/mm	IEC 60243-1
1.60mm, in oil	25	kV/mm	IEC 60243-1
3.20mm, in oil	17	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	2.60		IEC 60250
60 Hz	2.60		IEC 60250
1 MHz	2.60		IEC 60250
Dissipation Factor			IEC 60250
50 Hz	1.0E-3		IEC 60250
60 Hz	1.0E-3		IEC 60250
1 MHz	9.0E-3		IEC 60250
Comparative Tracking Index (CTI)	PLC 2		UL 746
Comparative Tracking Index	275	V	IEC 60112
High Amp Arc Ignition (HAI)	PLC 0		UL 746
Hot-wire Ignition (HWI)	PLC 2		UL 746

Flammability	Nominal Value	Unit	Test Method
Burning Rate (1.00 mm)	35	mm/min	ISO 3795
Flame Rating			UL 94
1.00 mm	HB		UL 94
3.00 mm	HB		UL 94
Glow Wire Flammability Index (3.20 mm)	650	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	95.0 - 105	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.020	%	
Hopper Temperature	60.0 - 80.0	°C	
Rear Temperature	220 - 250	°C	
Middle Temperature	240 - 280	°C	
Front Temperature	240 - 280	°C	
Nozzle Temperature	230 - 270	°C	
Processing (Melt) Temp	250 - 280	°C	
Mold Temperature	60.0 - 90.0	°C	
NOTE			
1.	Tensile Bar		
2.	2.0 mm/min		
3.	80*10*3 sp=62mm		
4.	80*10*3		
5.	120*10*4 mm		
6.	Approximate maximum		

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