

Lupoy® GP5006B

Polycarbonate + ABS

LG Chem Ltd.

Message:

- Description
- General Purpose, High Flow
- Application
- Miscellaneous Goods

General Information			
Additive	Lubricant		
Features	General Purpose		
	High Flow		
Uses	General Purpose		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)		
	Secant Modulus vs. Strain (ISO 11403-1)		
	Specific Heat vs. Temperature (ISO 11403-2)		
	Viscosity vs. Shear Rate (ISO 11403-2)		

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.14	g/cm ³	ASTM D792
--	1130	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Melt volume-flow rate (260°C/5.0 kg)	20.5	cm ³ /10min	ISO 1133 ²
Molding Shrinkage - Flow (3.20 mm, Injection Molded)	0.50 to 0.80	%	ASTM D955
Water Absorption (Saturation)	0.14	%	ISO 62 ³

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	2000	MPa	ISO 527-2 ⁴
Tensile Strength			
Yield, 3.20 mm, Injection Molded ⁵	55.9	MPa	ASTM D638
Yield	55.0	MPa	ISO 527-2 ⁶
Tensile Strain			
Yield	5.5	%	ISO 527-2 ⁷

Break, Injection Molded ⁸	> 100	%	ASTM D638
Nominal strain at break	> 50	%	ISO 527-2 ⁹
Flexural Modulus ¹⁰ (3.20 mm, Injection Molded)	2260	MPa	ASTM D790
Flexural Strength ¹¹ (3.20 mm)	90.2	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength			ISO 179/1eA ¹²
-30°C	18.0	kJ/m ²	
23°C	47.8	kJ/m ²	
Charpy impact strength			ISO 179/1eU ¹³
-30°C	No Break		
23°C	No Break		
Notched Izod Impact			ASTM D256
-30°C, 3.20 mm, Injection Molded	290	J/m	
23°C, 3.20 mm, Injection Molded	570	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm, Injection Molded	114	°C	ASTM D648
1.8 MPa	109	°C	ISO 75-2 ¹⁴
Glass Transition Temperature ¹⁵	140	°C	ISO 11357-2 ¹⁶
Vicat Softening Temperature (50°C/h, B (50N))	129	°C	ISO 306 ¹⁷
CLTE			ISO 11359-2 ¹⁸
Flow	8.2E-5	cm/cm/°C	
Transverse	8.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	> 1.0E+15	ohms	IEC 60093 ¹⁹
Volume resistivity	> 1.0E+13	ohms·m	IEC 60093 ²⁰
Electric strength	48	kV/mm	IEC 60243-1 ²¹
Relative Permittivity (1 MHz)	2.80		IEC 60250 ²²
Dissipation Factor (1 MHz)	0.010		IEC 60250 ²³
Comparative tracking index	275		IEC 60112 ²⁴
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 100	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	240 to 270	°C	
Middle Temperature	245 to 275	°C	
Front Temperature	245 to 275	°C	
Nozzle Temperature	245 to 275	°C	
Processing (Melt) Temp	240 to 270	°C	
Mold Temperature	50.0 to 70.0	°C	

Screw Speed	40 to 70	rpm
NOTE		
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
5.	50 mm/min	
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
8.	50 mm/min	
9.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
10.	10 mm/min	
11.	10 mm/min	
12.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
13.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
14.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
15.	10 °C/min	
16.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
17.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
18.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
19.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	
20.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.	

21.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
22.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
23.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
24.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.

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