

Lupoy® GP5008A

Polycarbonate + ABS

LG Chem Ltd.

Message:

Description

General Purpose, High Flow

Application

Miscellaneous Goods

General Information	
Additive	Lubricant
Features	Lubricated
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			
--	1.10	g/cm ³	ASTM D792
--	1060	kg/m ³	ISO 1183 ¹
Melt Mass-Flow Rate (MFR)	2.0	g/10 min	ASTM D1238
Melt volume-flow rate (260°C/5.0 kg)	18.0	cm ³ /10min	ISO 1133 ²
Molding Shrinkage - Flow	0.50 to 0.80	%	ASTM D955
Water Absorption (Saturation)	0.16	%	ISO 62 ³

Mechanical	Nominal Value	Unit	Test Method
Tensile modulus	1600	MPa	ISO 527-2 ⁴
Tensile Strength			
Yield, 3.20 mm ⁵	39.2	MPa	ASTM D638
Yield	36.0	MPa	ISO 527-2 ⁶
Tensile Strain (Yield)	3.7	%	ISO 527-2 ⁷
Nominal strain at break	27	%	ISO 527-2 ⁸
Flexural Modulus ⁹ (3.20 mm)	1670	MPa	ASTM D790
Flexural Strength ¹⁰ (3.20 mm)	59.8	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Charpy notched impact strength (23°C)	35.3	kJ/m ²	ISO 179/1eA ¹¹
Charpy impact strength			ISO 179/1eU ¹²
-30°C	No Break		
23°C	No Break		

Notched Izod Impact (23°C, 3.20 mm)	450	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, Unannealed, 6.40 mm	91.0	°C	ASTM D648
1.8 MPa	84.0	°C	ISO 75-2 ¹³
Glass Transition Temperature ¹⁴	140	°C	ISO 11357-2 ¹⁵
Vicat Softening Temperature (50°C/h, B (50N))	97.7	°C	ISO 306 ¹⁶
CLTE			ISO 11359-2 ¹⁷
Flow	1.1E-4	cm/cm/°C	
Transverse	1.1E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface resistivity	7.5E+14	ohms	IEC 60093 ¹⁸
Volume resistivity	> 1.0E+13	ohms·m	IEC 60093 ¹⁹
Electric strength	43	kV/mm	IEC 60243-1 ²⁰
Relative Permittivity (1 MHz)	2.70		IEC 60250 ²¹
Dissipation Factor (1 MHz)	0.010		IEC 60250 ²²
Comparative tracking index	275		IEC 60112 ²³
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	< 0.020	%	
Rear Temperature	230 to 250	°C	
Middle Temperature	235 to 255	°C	
Front Temperature	235 to 255	°C	
Nozzle Temperature	235 to 255	°C	
Processing (Melt) Temp	235 to 250	°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.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
9.	10 mm/min
10.	10 mm/min
11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.	10 °C/min
15.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
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.

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