

## LG Chemical LUPOY HP5004 PC/ABS, High Impact at Low Temperature

Category : Polymer , Thermoplastic , ABS Polymer , Polycarbonate/ABS Alloy, Unreinforced , Polycarbonate (PC) , Polycarbonate, Impact Modified

### Material Notes:

Description: Injection Molding, PC/ABS, General Purpose, High Impact at Low Temperature, High Flow, Heat Resistance Application: Mobile

Phone Housing CAS: 103598-77-2 and 9003-56-9 Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOY-HP5004-PCABS-High-Impact-at-Low-Temperature.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOY-HP5004-PCABS-High-Impact-at-Low-Temperature.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Maximum Moisture Content	0.020	0.020	Injection Molding
Linear Mold Shrinkage, Flow	0.0040 - 0.0060 cm/cm @Thickness 3.20 mm	0.0040 - 0.0060 in/in @Thickness 0.126 in	ASTM D955
Melt Flow	5.0 g/10 min @Load 2.16 kg, Temperature 250 Å°C	5.0 g/10 min @Load 4.76 lb, Temperature 482 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	111	111	ASTM D785
Tensile Strength, Yield	54.9 MPa @Thickness 3.20 mm	7970 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	100 % @Thickness 3.20 mm	100 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	88.3 MPa @Thickness 3.20 mm	12800 psi @Thickness 0.126 in	10mm/min; ASTM D790
Flexural Modulus	2.26 GPa @Thickness 3.20 mm	327 ksi @Thickness 0.126 in	10mm/min; ASTM D790
Izod Impact, Notched	>= 4.90 J/cm @Thickness 3.20 mm, Temperature -30.0 Å°C	>= 9.18 ft-lb/in @Thickness 0.126 in, Temperature -22.0 Å°F	ASTM D256
	>= 5.88 J/cm @Thickness 3.20 mm, Temperature 23.0 Å°C	>= 11.0 ft-lb/in @Thickness 0.126 in, Temperature 73.4 Å°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	112 Â°C @Thickness 6.40 mm	234 Â°F @Thickness 0.252 in	Unannealed; ASTM D648
UL RTI, Electrical	60.0 Â°C @Thickness >=0.750 mm	140 Â°F @Thickness >=0.0295 in	
UL RTI, Mechanical with Impact	60.0 Â°C @Thickness >=0.750 mm	140 Â°F @Thickness >=0.0295 in	
UL RTI, Mechanical without Impact	60.0 Â°C @Thickness >=0.750 mm	140 Â°F @Thickness >=0.0295 in	
Flammability, UL94	HB @Thickness >=0.750 mm	HB @Thickness >=0.0295 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	240 - 250 Â°C	464 - 482 Â°F	Injection Molding
Middle Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Front Barrel Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Nozzle Temperature	250 - 280 Â°C	482 - 536 Â°F	Injection Molding
Melt Temperature	255 - 285 Â°C	491 - 545 Â°F	Injection Molding
Mold Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Drying Temperature	80.0 - 100 Â°C	176 - 212 Â°F	Injection Molding
Dry Time	3.00 - 5.00 hour	3.00 - 5.00 hour	Injection Molding
Back Pressure	0.981 - 3.92 MPa	142 - 569 psi	Injection Molding
Screw Speed	40 - 70 rpm	40 - 70 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China