

## LG Chemical LUPOL ED1045D TPO, Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Olefinic Elastomer (TPO)

### Material Notes:

Description: Injection Molding, TPO, Thermoplastic Elastomer, Soft Touch  
Application: Electrical & Electronic, Automotive Parts  
CAS: 9003-07-0, 1333-86-4, 25087-34-7 and 14807-96-6  
Information provided by LG Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LG-Chemical-LUPOL-ED1045D-TPO-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-ED1045D-TPO-Thermoplastic-Elastomer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ASTM D792
Maximum Moisture Content	0.010	0.010	Injection Molding
Melt Flow	10 g/10 min @Load 2.16 kg, Temperature 230 Å°C	10 g/10 min @Load 4.76 lb, Temperature 446 Å°F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	12.7 MPa @Thickness 3.20 mm	1850 psi @Thickness 0.126 in	50mm/min; ASTM D638
Elongation at Break	>= 200 % @Thickness 3.20 mm	>= 200 % @Thickness 0.126 in	50mm/min; ASTM D638
Flexural Yield Strength	5.88 MPa @Thickness 6.40 mm	853 psi @Thickness 0.252 in	30mm/min; ASTM D790
Flexural Modulus	0.245 GPa @Thickness 6.40 mm	35.6 ksi @Thickness 0.252 in	30mm/min; ASTM D790
Izod Impact, Notched	>= NB @Thickness 6.40 mm, Temperature 23.0 Å°C	>= NB @Thickness 0.252 in, Temperature 73.4 Å°F	ASTM D256

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	190 - 210 Å°C	374 - 410 Å°F	Injection Molding
Middle Barrel Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Front Barrel Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding
Nozzle Temperature	210 - 230 Å°C	410 - 446 Å°F	Injection Molding
Melt Temperature	200 - 230 Å°C	392 - 446 Å°F	Injection Molding

Processing Properties	Metric	English	Comments
Mold Temperature	40.0 - 60.0 Å°C	100 - 140 Å°F	Injection Molding
Drying Temperature	70.0 - 80.0 Å°C	158 - 176 Å°F	Injection Molding
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	Injection Molding
Back Pressure	29.4 - 58.8 MPa	4260 - 8530 psi	Injection Molding
Screw Speed	30 - 60 rpm	30 - 60 rpm	Injection Molding

## Contact Songhan Plastic Technology Co.,Ltd.

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