

LG Chemical LUPOL TE-5104K Thermoplastic Elastomer Alloy, 10% Polymer Alloy, High Modulus

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

LUPOL resins, based on polyolefin with a wide range of characteristics, are a family of low cost engineering plastics. Applications: Automotive exterior parts. Information Provided by LG Chem

Order this product through the following link:

http://www.lookpolymers.com/polymer_LG-Chemical-LUPOL-TE-5104K-Thermoplastic-Elastomer-Alloy-10-Polymer-Alloy-High-Modulus.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.950 g/cc	0.950 g/cc	ASTM D792
Linear Mold Shrinkage	0.0080 cm/cm	0.0080 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.0 MPa	2900 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Flexural Strength	24.0 MPa	3480 psi	ASTM D790
Flexural Modulus	1.18 GPa	171 ksi	ASTM D790
Izod Impact, Notched	NB @Temperature 23.0 Â°C	NB @Temperature 73.4 Â°F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	115 Â°C	239 Â°F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	200 - 220 Â°C	392 - 428 Â°F	
Middle Barrel Temperature	200 - 230 Â°C	392 - 446 Â°F	
Front Barrel Temperature	210 - 230 Â°C	410 - 446 Â°F	
Nozzle Temperature	210 - 240 Â°C	410 - 464 Â°F	
Melt Temperature	210 - 240 Â°C	410 - 464 Â°F	

Mold Temperature Processing Properties	40.0 - 90.0 Å°C Metric	104 - 194 Å°F English	Comments
Drying Temperature	70.0 - 90.0 Å°C	158 - 194 Å°F	
Dry Time	2 - 3 hour	2 - 3 hour	
Injection Pressure	29.4 - 118 MPa	4260 - 17100 psi	First
	78.45 - 98.07 MPa	11380 - 14220 psi	Second
Back Pressure	0.490 - 3.92 MPa	71.1 - 569 psi	
Screw Speed	40 - 60 rpm	40 - 60 rpm	

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