

## LTL Color Compounds Surlyn Reflection Series® SURSG201UG Surlyn Resin/Nylon 6 Alloy

Category : Polymer , Thermoplastic , Ionomer , Nylon , Nylon 6

### Material Notes:

A patented alloy of DuPont's Surlyn® resin and nylon 6 for applications that require a high gloss, molded in color surface finish directly from the mold. All information provided by LTL Color Compounders, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LTL-Color-Compounds-Surlyn-Reflection-Series-SURSG201UG-Surlyn-ResinNylon-6-Alloy.php](http://www.lookpolymers.com/polymer_LTL-Color-Compounds-Surlyn-Reflection-Series-SURSG201UG-Surlyn-ResinNylon-6-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.043 g/cc	1.043 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 cm/cm	0.010 in/in	0.125; ASTM D955
Melt Flow	2.0 - 7.0 g/10 min @Load 1.20 kg, Temperature 300 °C	2.0 - 7.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	39.4 MPa	5710 psi	2.0 in/min; ASTM D638
Tensile Strength, Yield	40.3 MPa	5850 psi	2.0 in/min; ASTM D638
Elongation at Break	220 %	220 %	2.0 in/min; ASTM D638
Elongation at Yield	11 %	11 %	2.0 in/min; ASTM D638
Flexural Modulus	1.14 GPa	165 ksi	2.0 in/min; ASTM D790
Izod Impact, Notched	2.67 J/cm @Temperature -30.0 °C	5.00 ft-lb/in @Temperature -22.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	57.8 °C	136 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	241 °C	465 °F	0.5
Middle Barrel Temperature	241 °C	465 °F	0.5
Front Barrel Temperature	241 °C	465 °F	0.5

Melt Temperature Processing Properties	232 - 257 Å°C Metric	450 - 495 Å°F English	Comments
Mold Temperature	51.7 - 57.2 Å°C	125 - 135 Å°F	
Drying Temperature	60.0 - 62.8 Å°C	140 - 145 Å°F	
Dry Time	6 - 8 hour	6 - 8 hour	nominal; maximum drying time of 24 hours
Back Pressure	0.345 - 0.689 MPa	50.0 - 100 psi	
Shot Size	30 - 70 %	30 - 70 %	50% optimum
Vent Depth	0.00254 - 0.00381 cm	0.00100 - 0.00150 in	

## Contact Songhan Plastic Technology Co.,Ltd.

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