

DuPont Surlyn® SG201U NC010 Supergloss Molding Alloy

Category : Polymer , Thermoplastic

Material Notes:

Surlyn® SG201U is a modified ionomer resin for applications that require a high gloss, molded in color surface color surface finish directly from the mold. The material is weatherable, durable, and provides improved scratch and abrasion resistance. Surlyn® SG201U is an excellent, lower cost, more environmentally friendly alternative to painting. Information provided by DuPont.

Order this product through the following link:

http://www.lookpolymers.com/polymer_DuPont-Surlyn-SG201U-NC010-Supergloss-Molding-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	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	>= 200 %	>= 200 %	ASTM D638
Flexural Modulus	1.139 GPa	165.2 ksi	ASTM D790
Izod Impact, Notched	2.67 J/cm	5.00 ft-lb/in	ASTM D256
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	0.0940 µm/m-°C	0.0522 µin/in-°F	ASTM E831
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	14.4 °C	58.0 °F	ASTM D648
Vicat Softening Point	190 °C	374 °F	ASTM D1525

Processing Properties	Metric	English	Comments
Melt Temperature	235 - 250 °C	455 - 482 °F	
Mold Temperature	40.6 - 79.4 °C	105 - 175 °F	
Drying Temperature	<= 79.4 °C	<= 175 °F	

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