Surlyn Reflection Series® SURSG201UG

Americhem - *Polyamide 6 Alloy*

General Information

Product Description

A patented alloy of DuPont™ Surlyn® resin and nylon 6 for applications that require a high gloss, molded in color surface finish directly from the mold.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.04		ASTM D792
Melt Mass-Flow Rate (MFR) (240°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	5850	psi	ASTM D638
Tensile Strength [2] (Break)	5710	psi	ASTM D638
Tensile Elongation [2] (Yield)	11	%	ASTM D638
Tensile Elongation [2] (Break)	220	%	ASTM D638
Flexural Modulus [2]	165000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	30	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	136	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	140 to 145	°F
Drying Time	6.0 to 8.0	hr
Suggested Shot Size	30 to 70	%
Rear Temperature	465	°F
Middle Temperature	465	°F
Front Temperature	465	°F
Nozzle Temperature	480	°F
Processing (Melt) Temp	450 to 495	°F
Mold Temperature	125 to 135	°F
Back Pressure	50.0 to 100	psi
Vent Depth	1.0E-3 to 1.5E-3	in

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min