

Surlyn Reflection Series® SURSG201UN-10T

Americhem - Polyamide 6 Alloy

General Information

Product Description

A mineral filled alloy of DuPont™ Surlyn® resin and nylon 6, molded in color applications.

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	1.10		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)	6900	psi	ASTM D638
Tensile Strength ² (Break)	5860	psi	ASTM D638
Tensile Elongation ² (Yield)	7.0	%	ASTM D638
Tensile Elongation ² (Break)	86	%	ASTM D638
Flexural Modulus ²	215000	psi	ASTM D790
Flexural Strength ²	6950	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-22°F	3.0	ft·lb/in	
73°F	7.0	ft·lb/in	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	160	°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	140 to 145	°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

