

DuraStar™ DS2110UVI

Thermoplastic Polyester
Eastman Chemical Company

Message:

Durastar™ DS2110UVI polymer, contains an ultraviolet light stabilization package. It is recommended for indoor applications requiring enhanced color stability upon extended exposure to fluorescent light. It has excellent appearance and is nearly water-clear. Its other most outstanding features are toughness, chemical resistance, and excellent processing characteristics. DS2110UVI has very good toughness as shown by Izod impact resistance. Easy to process, it flows readily, fills intricate molds, and contains a mold release. This product is certified to ANSI/NSF Standard 51.

General Information			
Additive	Mold Release		
	UV Stabilizer		
Features	Fast Molding Cycle		
	Good Chemical Resistance		
	Good Color Stability		
	Good Flow		
	Good Impact Resistance		
	Good Processability		
	Good Toughness		
	Good UV Resistance		
	High Clarity		
Uses	Appliance Components		
	Appliances		
	Flooring Maintenance/Repair		
	Furniture		
	Household Goods		
	Sporting Goods		
	Toys		
Agency Ratings	NSF 51		
Appearance	Natural Color		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.20	g/cm³	ASTM D792
23°C	1.19	g/cm³	ISO 1183
Molding Shrinkage - Flow (3.20 mm)	0.20 to 0.60	%	ASTM D955

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 23°C)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			
Yield, 23°C	46.0	MPa	ASTM D638
Yield, 23°C	47.0	MPa	ISO 527-2
Break, 23°C	53.0	MPa	ASTM D638
Break, 23°C	49.0	MPa	ISO 527-2
Tensile Elongation			
Yield, 23°C	5.0	%	ASTM D638
Yield, 23°C	4.0	%	ISO 527-2
Break, 23°C	310	%	ASTM D638
Break, 23°C	210	%	ISO 527-2
Flexural Modulus			
23°C	1900	MPa	ASTM D790
23°C	1750	MPa	ISO 178
Flexural Stress			
23°C	64.0	MPa	ISO 178
Yield, 23°C	67.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
-40°C	60	J/m	ASTM D256
23°C	370	J/m	ASTM D256
-40°C	6.3	kJ/m ²	ISO 180
23°C	30	kJ/m ²	ISO 180
Unnotched Izod Impact			ASTM D4812
-40°C	No Break		
23°C	No Break		
Instrumented Dart Impact			
-40°C, Energy at Peak Load	48.0	J	ASTM D3763
23°C, Energy at Peak Load	45.0	J	ASTM D3763
-40°C, Energy to Peak Force	55.0	J	ISO 6603-2
23°C, Energy to Peak Force	71.0	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	73.0	°C	ASTM D648, ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ASTM D648
1.8 MPa, Unannealed	66.0	°C	ISO 75-2/A
Optical	Nominal Value	Unit	Test Method
Transmittance			ASTM D1003
Total	91.0	%	
Regular	89.0	%	

Haze	0.30	%	ASTM D1003
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	250 to 290	°C	
Mold Temperature	15.0 to 30.0	°C	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

