

Product Texts

Durastar™ DS1910HF polymer is a high flow grade of Durastar™ that contains a mold release. Durastar™ DS1910HF flow lengths are increased 20-40% relative to Durastar™ DS1010 as shown by spiral flow testing.

Other outstanding features of Durastar™ are easily maintained such as excellent appearance and clarity, good physical properties, chemical resistance, and easy processing. This high flow product is especially suited for those applications utilizing thin-walled intricate tools. Under existing United States Food and Drug Administration (FDA) regulations, Durastar™ DS1910HF may be used in food contact articles which comply with the specifications and conditions of use in 21 CFR 177.1240.

This product is certified to ANSI/NSF Standard 51.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.003	mm/mm	ASTM D 955
Mechanical properties			
ASTM Data			
Tensile Strength at Yield	50	MPa	ASTM D 638
Tensile Strength at Break	43	MPa	ASTM D 638
Elongation at Yield	5	%	ASTM D 638
Elongation at Break	270	%	ASTM D 638
Flexural Modulus	1900	MPa	ASTM D 790
Rockwell Hardness	107	-	ASTM D 785
Izod Impact notched, 1/8 in	80.1	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	44	J/m	ASTM D 256
Temperature	-40	°C	-
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256
Thermal properties			
ASTM Data			
DTUL @ 66 psi	73	°C	ASTM D 648
DTUL @ 264 psi	66	°C	ASTM D 648
Vicat Temperature	86	°C	ASTM D 1525
Optical properties			
ASTM Data			
Haze	1	%	ASTM D 1003
Light Transmittance	92	%	ASTM D 1003
Other properties			
Water Absorption, 24hr	0.15	%	ASTM D 570
Density	1190	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
Pre-drying - Temperature	70	°C	-
Pre-drying - Time	4	h	-
Melt temperature	230 - 280	°C	-
Mold temperature	15 - 30	°C	-

Characteristics

Processing

Injection Molding

Delivery form

Natural Color

Additives

Release agent

Special Characteristics

High impact or impact modified, Transparent

Chemical Resistance

General Chemical Resistance

Certifications

Food contact, Food approval FDA 21 CFR, Food approval NSF 51

Applications

Electrical and Electronical, Packaging, Sports Equipment, Toys

Regional Availability

North America, Europe, Asia Pacific, South and Central America