



**Grades: ViviOn™8210EUT**

**ViviOn™ Cyclic Block Copolymers (CBCs)** is a new class of polymers made by fully hydrogenating block copolymers of styrene and conjugated diene.

The grade ViviOn™ 8210EUT contains the unique features below:

- This grade comes with a super high melt flow suitable for injection molding thin and precise parts.
- ViviOn™ 8210EUT provides high UV transmittance down into the UVC range (200 – 280nm).

The design of ViviOn™ 8210EUT is for thin and precise parts with certain optical requirements. The super high melt flow combined with high light transmission and special optical properties allows for several possibilities. While ViviOn™ 8210EUT is a grade that provides UVC transmittance in applications such as diagnostics and UVC sterilization. For detailed processing guidelines, please contact USI for more information.

**USI Corporation**



Properties	Test Method (ASTM)	Units	ViviOn™8210EUT
<b>General Properties</b>			
Density	D-792	g/cm <sup>3</sup>	0.94
Water Uptake	D-570	%	< 0.01
Melt Flow Rate (260 °C/ 2.16kg)	D-1238	cm <sup>3</sup> /10min	200
<b>Optical Properties</b>			
Refractive Index	-	-	1.51
Light Transmission (380nm – 760nm)	D-1003	%	92
Haze	D-1003	%	< 0.5
<b>Thermal Properties</b>			
Vicat Softening Temp. (1kg, 50 °C/ hr)	D1525	°C	109
Heat Distortion Temp. (0.455 MPa, 2°C/min)	D648	°C	83
Glass Transition Temperature	DSC	°C	115
<b>Mechanical Properties</b>			
Flexural Strength	D-790	MPa	65
Flexural Modulus	D-790	GPa	2.1
Tensile Strength (B.P.)	D-638	MPa	35
Elongation (B.P.)	D-638	%	12
Impact Strength (Izod Notched)	D-256	J/m	30
Impact Strength (Charpy Notched)	D-6110	kJ/m <sup>2</sup>	2.8

