



**Grades: ViviOn™1325EUT**

**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™1325EUT contains the unique features below:

- This grade comes with moderate melt flow suitable for injection molding, extrusion, and blow molding.
- Optically transparent films can be made through extrusion (100 - 200um depending on equipment and experience).
- ViviOn™ 1325EUT provides high UV transmittance down into the UVC range (200 – 280nm).

The design of ViviOn™ 1325EUT is a special grade that provides UVC transmittance in applications such as diagnostics and UVC sterilization. Having mechanical properties that suit a wide range of applications, while also being able to be processed with several processing methods such as injection molding, extrusion and blow molding. For detailed processing guidelines, please contact USI for more information.

**USI Corporation**



Properties	Test Method (ASTM)	Units	ViviOn™1325EUT
<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	13
<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	125
Heat Distortion Temp. (0.455 MPa, 2°C/min)	D648	°C	103
Glass Transition Temperature	DSC	°C	128
<b>Mechanical Properties</b>			
Flexural Strength	D-790	MPa	70
Flexural Modulus	D-790	GPa	2.3
Tensile Strength (B.P.)	D-638	MPa	37
Elongation (B.P.)	D-638	%	14
Impact Strength (Izod Notched)	D-256	J/m	35
Impact Strength (Charpy Notched)	D-6110	kJ/m <sup>2</sup>	3.0

