

## **Technical Data Sheet**

### **Grades: ViviOn™ 8210**

**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™ 8210 contains the unique features below:

- This grade comes with a super high melt flow suitable for injection molding thin and precise parts.

The design of ViviOn™ 8210 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. This grade is generally recommended for injection molding applications.

For detailed processing guidelines, please contact USI for more information.

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Properties	Test Method (ASTM)	Units	ViviOn™ 8210
<b>General Properties</b>			
Density	D792	g/cm <sup>3</sup>	0.94
Water Uptake	D570	%	< 0.01
Melt Flow Rate (2.16kg, 230°C)	D1238	g/10min	35
<b>Optical Properties</b>			
Refractive Index	-	-	1.51
Light Transmission (380nm – 760nm)	D1003	%	92
Haze	D1003	%	< 1.0
<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	USI Method	°C	115
<b>Mechanical Properties</b>			
Flexural Strength	D790	MPa	65
Flexural Modulus	D790	GPa	2.1
Tensile Strength (B.P.)	D638	MPa	35
Elongation (B.P.)	D638	%	7
Impact Strength (Charpy Notched)	D6110	kJ/m <sup>2</sup>	2.6

The information contained herein is, to our best knowledge, true and accurate. However, since conditions of use are beyond our control, all risks of such use are assumed by users.

