

Technical Data Sheet

Grades: ViviOn™ 0510T

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™ 0510T contains the unique features below:

- Can be processed with injection molding, extrusion molding, and injection stretch blow molding.
- Modified from ViviOn™ 0510HF, to gain higher impact resistance at the expense of higher haze.
- ViviOn™ 0510T has less impact resistance than ViviOn™ 0510HT, but has a more transparent appearance.

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

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Properties	Test Method (ASTM)	Units	ViviOn™ 0510T
General Properties			
Density	D792	g/cm ³	0.94
Water Uptake	D570	%	< 0.01
Melt Flow Rate (2.16kg, 260 °C)	D1238	g/10min	11
Optical Properties			
Light Transmission (380nm – 760nm)	D1003	%	91.5
Haze	D1003	%	1.5
Thermal Properties			
Vicat Softening Temp. (1kg, 50 °C/ hr)	D1525	°C	113
Heat Distortion Temp. (0.455 MPa, 2°C/min)	D648	°C	87
Glass Transition Temperature	USI Method	°C	119
Mechanical Properties			
Flexural Strength	D790	MPa	60
Flexural Modulus	D790	GPa	1.6
Tensile Strength (B.P.)	D638	MPa	35
Elongation (B.P.)	D638	%	16
Impact Strength (Charpy Notched)	D6110	kJ/m ²	12

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.

