

# Injection Properties for ECOZEN® T90G

Product Name : ECOZEN® T90G CAS No. 1038843-64.9  
 Test Results : For further details, please refer to following page(s)  
 Test Performed : SK Chemicals R&D center

Property	Test Method	Unit	Typical Values
<b>Rockwell Hardness</b>	ASTM D785	R-scale	115
<b>Specific Gravity</b>	ASTM D792	-	1.25
<b>Moisture Absorption Factor</b>	ASTM D570	%	0.2~0.3
<b>Mechanical</b>			
<b>Tensile Strength @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	kgf/cm <sup>2</sup>	530
<b>Tensile Strength @ Break</b> 50mm/min (2 inch/min)	ASTM D638	kgf/cm <sup>2</sup>	340
<b>Elongation @ Yield</b> 50mm/min (2 inch/min)	ASTM D638	%	5.7
<b>Elongation @ Break</b> 50mm/min (2 inch/min)	ASTM D638	%	150
<b>Flexural Strength</b> 1.27mm/min (0.05 inch/min)	ASTM D790	kgf/cm <sup>2</sup>	880
<b>Flexural Modulus</b> 1.27mm/min (0.05 inch/min)	ASTM D790	kgf/cm <sup>2</sup>	21,700
<b>Izod Impact Strength, Notched @ 23 °C(73 °F)</b>	ASTM D256	J/m	No Break
<b>Thermal</b>			
<b>Heat Distortion Temperature</b> @ 0.455 MPa(66 psi)	ASTM D648	°C	80
<b>Glass Transition Temperature</b>	ASTM D1525	°C	90
<b>Optical</b>			
<b>Haze</b>	ASTM D1003	%	< 1.0
<b>Transmittance</b>	ASTM D1003	%	90
<b>Refractive Index, n<sub>D</sub></b>	ASTM D542	-	1.56
<b>Melt Index (MI)</b>			
<b>Melt Index (250 °C)</b>			
@ 2.16 kg	-	-	10.9
@ 5.0 kg	-	-	22.3
@ 10.0 kg	-	-	57.5
<b>Melt Index (270 °C)</b>			
@ 2.16 kg	-	-	27.8
@ 5.0 kg	-	-	71.8
@ 10.0 kg	-	-	127.7
<b>Flammability</b>			
<b>UL Flammability Classification</b> @ min. 3.2 thickness	UL 94	-	V2

The data listed here is preliminary data sheet of product. Therefore this sheet should not be used to establish specification limits or used alone as a basis for design. This information is not intended as a warranty of any kind. Customers must make their own representative test and assume all risks of use, whether used alone or in combination with other products. SK Chemicals assumes no obligation or liability of any advice furnished by it or results obtained with respect to these products. All warranties of merchantability for a particular purpose or use are excluded and disclaimed.

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