

## EcoLon<sup>®</sup> XT1949-BK1

### Impact Modified Nylon 66 Resin Preliminary Datasheet

Property	ISO Test Method	Metric Units	Metric Units	Standard Units	Standard Units
Tensile Strength	527	MPa	<b>59</b>	psi*	<b>8,600</b>
Tensile Elongation	527	%	<b>23</b>	%	<b>23</b>
Flexural Modulus	178	MPa	<b>2,000</b>	psi*(10 <sup>5</sup> )	<b>2.9</b>
Flexural Strength	178	MPa	<b>72</b>	psi*	<b>10,500</b>
Izod Impact	180	kJ/m <sup>2</sup>	<b>12</b>	ft-lbs/in*	<b>2.3</b>
HDT @ 264 psi	75	°C	<b>60</b>	°F	<b>140</b>
Density	1183	g/cc	<b>1.10</b>	g/cc	<b>1.10</b>
Melting Point	3146	°C	<b>260</b>	°F	<b>500</b>
Shrinkage - Flow	294-4	%	<b>1.6 – 2.0</b>	%	<b>1.6 – 2.0</b>
Shrinkage - Transverse	294-4	%	<b>2.0 – 2.4</b>	%	<b>2.0 – 2.4</b>
Filler Content	3451-4	%	<b>0</b>	%	<b>0</b>

Note: This is typical data obtained from injection molded test bars, tested dry as molded at 73°F (23°C). Pigments, colorants and other additives may affect certain properties; customers should verify actual properties when considering applications. The data listed here fall in the normal range of product properties but it should not be used to establish specification limits or used alone as the basis for design.

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\* Rounded conversions of Metric Units. 1 MPa = 145 psi - 5.25 kJ/m<sup>2</sup> = 1 ft-lbs/in \*\* Wellman Laboratory Tests

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