

Wellman Wellamid® XT1867-BK1 High Impact Nylon 66

Material Notes: **Description:** High Impact Nylon 66 Information provided by Wellman.

Vendors:



WELLMAN ENGINEERING RESINS offers over 200 injection molding resins in nylon 66, nylon 6 and nylon 66 virgin, post industrial and post consumer grades.

Physical Properties		Metric	English	Comments
Density		<u>1.07</u> g/cc	<u>0.0387</u> lb/in ³	ISO 1183-87
Linear Mold Shrinkage		<u>0.0250</u> - <u>0.0300</u> cm/cm	<u>0.0250</u> - <u>0.0300</u> in/in	Flow; ISO DIS 294-4
Linear Mold Shrinkage, Transverse		<u>0.0200</u> - <u>0.0250</u> cm/cm	<u>0.0200</u> - <u>0.0250</u> in/in	ISO DIS 294-4
Mechanical Properties		Metric	English	Comments
Tensile Strength at Break		<u>45.0</u> MPa	<u>6530</u> psi	ISO 527-93
Elongation at Break		140 %	140 %	ISO 527-93
Flexural Modulus		<u>1.45</u> GPa	<u>210</u> ksi	ISO 178-93
Flexural Strength		<u>55.0</u> MPa	<u>7980</u> psi	ISO 178-93
Izod Impact, Notched, Low Temp (ISO)		<u>22.0</u> kJ/m ²	<u>10.5</u> ft-lb/in ²	at -40°C; ISO 180-93
Izod Impact, Notched (ISO)		<u>90.0</u> kJ/m ²	<u>42.8</u> ft-lb/in ²	ISO 180-93
Thermal Properties		Metric	English	Comments
Melting Point		<u>260</u> °C	<u>500</u> °F	ISO 3146
Deflection Temperature at 1.8 MPa (264 psi)		<u>60.0</u> °C	<u>140</u> °F	ISO 75-93