

**ECOMID® B GF40 BK 9005/1 - PA6**
**Description**

(OMNILON® PA6 U GR40 BK1000)  
 40% Glass Reinforced, Utility Grade, PA6

<b>Physical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Density	90.5	lb/ft <sup>3</sup>	ISO 1183
<b>Mechanical properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
Tensile stress at yield, 23°C	23100	psi	ASTM D638
Flexural modulus, 23°C	1.5E6	psi	ASTM D790
Flexural stress, 23°C	33500	psi	ASTM D790
Izod impact notched, 23°C	1.8	ft-lb/in	ASTM D256
<b>Thermal properties</b>	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
DTUL at 1.8 MPa	410	°F	ISO 75-1, -2
DTUL at 0.45 MPa	424	°F	ISO 75-1, -2

**Typical injection molding processing conditions**

<b>Pre Drying</b>	<b>Value</b>	<b>Unit</b>
Necessary low maximum residual moisture content	0.15	%
Drying time	4 - 8	h
Drying temperature	176 - 194	°F
<b>Temperature</b>	<b>Value</b>	<b>Unit</b>
Zone1 temperature	428 - 446	°F
Zone2 temperature	437 - 455	°F
Zone3 temperature	455 - 473	°F
Zone4 temperature	473 - 491	°F
Nozzle temperature	491 - 518	°F
Melt temperature	482 - 518	°F
Mold temperature	140 - 176	°F
Hot runner temperature	491 - 518	°F

**Characteristics**

<b>Special Characteristics</b>	Recycled content
<b>Product Categories</b>	Glass reinforced
<b>Processing</b>	Injection molding

**Other Approvals**

<b>OEM</b>	<b>Specification</b>	<b>Additional Information</b>
VW Group*	VW50125	* best fitting grade to PA6-9, not officially approved