

**Product Texts**

Vydyne 41HFE BL0887 is a high impact modified, metal and x-ray detectable, heat stabilized PA66. This resin imparts good toughness and impact resistance while offering metal and x-ray detectability in critical applications.

<b>Processing/Physical Characteristics</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	<b>0.8 / *</b>	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	<b>1.1 / *</b>	%	ISO 294-4, 2577

[C]: CAMPUS

<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	<b>1700 / 800</b>	MPa	ISO 527
<sup>[C]</sup> Stress at 50% strain	<b>* / 32</b>	MPa	ISO 527
<sup>[C]</sup> Stress at break	<b>38 / *</b>	MPa	ISO 527
<sup>[C]</sup> Strain at break	<b>33 / &gt;50</b>	%	ISO 527
<sup>[C]</sup> Charpy impact strength, +23°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	<b>N / N</b>	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	<b>25 / 47</b>	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	<b>13 / 12</b>	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	<b>260 / *</b>	°C	ISO 11357-1/-3
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	<b>57 / *</b>	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	<b>115 / *</b>	°C	ISO 75-1/-2

[C]: CAMPUS

<b>Electrical properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
<sup>[C]</sup> Electric strength	<b>25 / 23</b>	kV/mm	IEC 60243-1

[C]: CAMPUS

<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>	<b>Test Standard</b>
<sup>[C]</sup> Water absorption	<b>1.1 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	<b>1.1 / *</b>	%	Sim. to ISO 62
<sup>[C]</sup> Density	<b>1320 / -</b>	kg/m <sup>3</sup>	ISO 1183

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Delivery form**

Pellets

**Additives**

Lubricants, Release agent

**Special Characteristics**

High impact or impact modified, Heat stabilized or stable to heat

**Features**

Metal Detectable

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa