



This datasheet of **Akulon® Diablo HDT2500** from **Envalior** is provided by the international plastics database **CAMPUS**.

## Akulon® Diablo HDT2500 | (PA66+PA6)-GF35 | Envalior

### Product Texts

35% Glass Reinforced, Heat Stabilized

ISO 1043 (PA66+PA6)-GF35

<b>Rheological properties</b>	<b>dry / cond</b>	<b>Unit</b>
Molding shrinkage, parallel	<b>0.3 / *</b>	%
Molding shrinkage, normal	<b>0.9 / *</b>	%
<b>Mechanical properties</b>	<b>dry / cond</b>	<b>Unit</b>
Tensile modulus	<b>11000 / 6500</b>	MPa
Stress at break	<b>195 / 115</b>	MPa
Strain at break	<b>3.2 / 7</b>	%
Charpy impact strength, +23°C	<b>80 / 85</b>	kJ/m <sup>2</sup>
Charpy impact strength, -30°C	<b>60 / 60</b>	kJ/m <sup>2</sup>
Charpy notched impact strength, +23°C	<b>11 / 16</b>	kJ/m <sup>2</sup>
Charpy notched impact strength, -30°C	<b>9 / 9</b>	kJ/m <sup>2</sup>
<b>Thermal properties</b>	<b>dry / cond</b>	<b>Unit</b>
Melting temperature, 10°C/min	<b>260 / *</b>	°C
Temp. of deflection under load, 1.80 MPa	<b>240 / *</b>	°C
Temp. of deflection under load, 0.45 MPa	<b>258 / *</b>	°C
Coeff. of linear therm. expansion, parallel	<b>40 / *</b>	E-6/K
Coeff. of linear therm. expansion, normal	<b>50 / *</b>	E-6/K
<b>Other properties</b>	<b>dry / cond</b>	<b>Unit</b>
Water absorption	<b>5 / *</b>	%
Humidity absorption	<b>2.1 / *</b>	%
Density	<b>1410 / -</b>	kg/m <sup>3</sup>

Viscosity number

135 / \*      cm³/g

Rheological calculation properties

Density of melt

Value      Unit  
1220      kg/m³

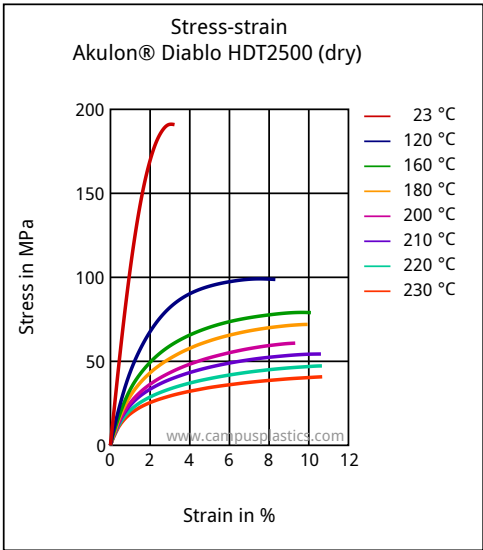
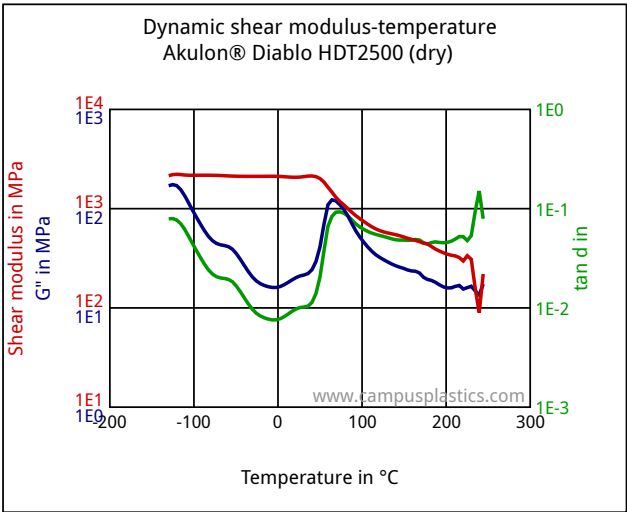
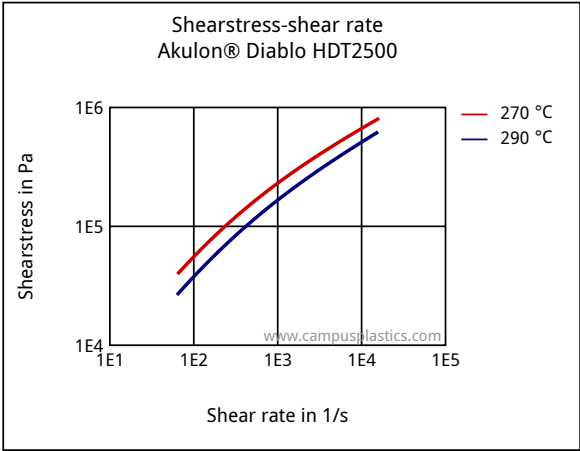
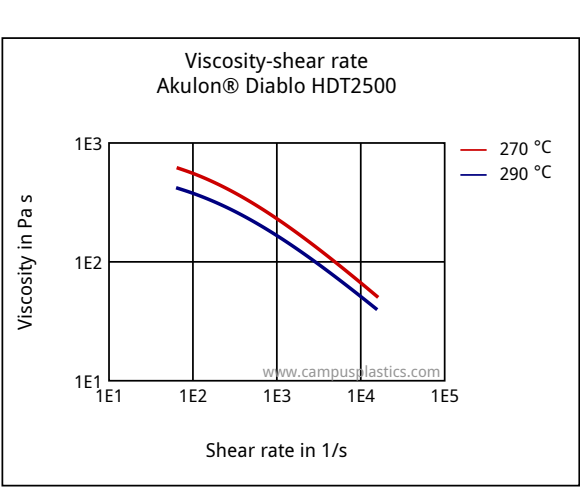
Thermal conductivity of melt

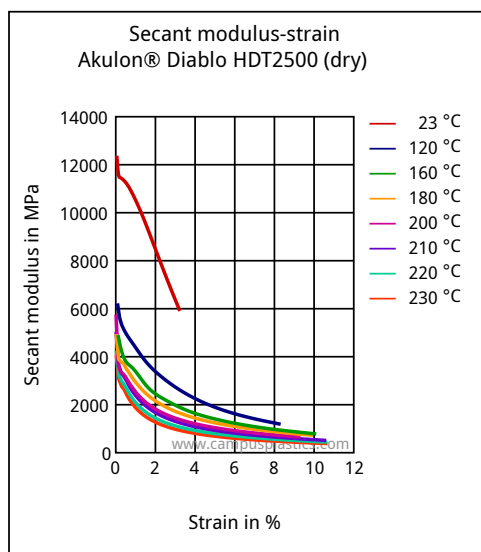
0.27      W/(m K)

Spec. heat capacity melt

2060      J/(kg K)

Diagrams





## Characteristics

### Processing

Injection Molding

### Delivery form

Pellets

### Special Characteristics

Heat stabilized or stable to heat

### Regional Availability

North America, Europe, Asia Pacific

## Other text information

### Injection molding

Injection Molding Recommendations

Steel recommendations for molds screws and barrels

Trouble shooting guideline for injection molding

## Chemical Media Resistance

### Alcohols

Methanol (23°C)

Ethanol (23°C)

### Hydrocarbons

Toluene (23°C)

### Ketones

Acetone (23°C)

### Ethers

Diethyl ether (23°C)

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## Other

Ethyl Acetate (23°C)

Water (23°C)

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