

**Product Texts**

Terblend® N NG-04EF is a blend of ABS with PA 6, provides very good mechanical properties, a high melt flow and very good chemical resistance provided by the polyamide component. Parts from Terblend® NG-04EF have acoustic dampening properties and show in unpainted, textured surfaces a nice matt appearance. Terblend® N NG-04EF is a low emission 20% glass fiber reinforced "Enhanced Flow" grade, containing also a powerful UV package. The reinforcement provides a high heat performance and stiffness, for visible and structural parts.

Processing/Physical Characteristics	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melt volume-flow rate, MVR	25 / *	cm <sup>3</sup> /10min	ISO 1133
Temperature	240 / *	°C	-
Load	10 / *	kg	-
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
<sup>[C]</sup> Density of melt	1070	kg/m <sup>3</sup>	-
<sup>[C]</sup> Thermal conductivity of melt	0.232	W/(m K)	-
<sup>[C]</sup> Spec. heat capacity of melt	2270	J/(kg K)	-
<sup>[C]</sup> Ejection temperature	177	°C	-

[C]: CAMPUS

Mechanical properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Tensile Modulus	5300 / 4000	MPa	ISO 527
<sup>[C]</sup> Stress at break	80 / 70	MPa	ISO 527
<sup>[C]</sup> Strain at break	4 / 7	%	ISO 527
Flexural modulus, 23°C	4500 / -	MPa	ISO 178
Flexural strength	115 / -	MPa	ISO 178
<sup>[C]</sup> Charpy impact strength, +23°C	53 / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy impact strength, -30°C	51 / -	kJ/m <sup>2</sup>	ISO 179/1eU
<sup>[C]</sup> Charpy notched impact strength, +23°C	14 / -	kJ/m <sup>2</sup>	ISO 179/1eA
<sup>[C]</sup> Charpy notched impact strength, -30°C	8 / -	kJ/m <sup>2</sup>	ISO 179/1eA

[C]: CAMPUS

Thermal properties	dry / cond	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	108 / *	°C	ISO 75-1/-2
<sup>[C]</sup> Temp. of deflection under load, 0.45 MPa	180 / *	°C	ISO 75-1/-2
Vicat softening temperature, A	195 / *	°C	ISO 306
<sup>[C]</sup> Vicat softening temperature, B	130 / *	°C	ISO 306
<sup>[C]</sup> Coeff. of linear therm. expansion, parallel	35 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Coeff. of linear therm. expansion, normal	130 / *	E-6/K	ISO 11359-1/-2
<sup>[C]</sup> Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Thickness tested	1.5 / *	mm	-
Yellow Card available	yes / *	-	-
<sup>[C]</sup> Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3.0 / *	mm	-
Yellow Card available	yes / *	-	-

[C]: CAMPUS

Other properties	dry / cond	Unit	Test Standard
<sup>[C]</sup> Water absorption	3.9 / *	%	Sim. to ISO 62
<sup>[C]</sup> Humidity absorption	0.9 / *	%	Sim. to ISO 62
<sup>[C]</sup> Density	1200 / -	kg/m <sup>3</sup>	ISO 1183
Bulk density	600	kg/m <sup>3</sup>	-

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	4 - 8	h	-

**Terblend® N NG-04EF**

(ABS+PA6)-GF20

INEOS Styrolution

Melt temperature	<b>240 - 270</b>	°C	-
Mold temperature	<b>40 - 80</b>	°C	-

**Characteristics****Processing**

Injection Molding

**Delivery form**

Pellets

**Special Characteristics**

U.V. stabilized or stable to weather

**Features**

Low Emission

**Chemical Resistance**

General Chemical Resistance

**Applications**

Automotive

**Regional Availability**

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

**Other text information****Injection molding**

## PREPROCESSING

Pre-drying Temperature: 80 - 90°C

Pre-drying Time: 4 - 8h

## PROCESSING

Melt temperature, range: 240 - 270°C

Mold temperature, range: 40 - 80°C