

## Technical data sheet

**Product name:** **Fibrolon® P 8540**  
 Date of issue: 03.07.2009 (prev. Fibrolon® 46 N) Version: 2.0  
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### 1. Designation of product, preparation and manufacture

1.1 Trade name: Fibrolon® P 8540 (prev. Fibrolon® 46 N)  
 1.2 Use of product: Natural fibre reinforced compound for injection moulding  
 1.3 Manufacturer: FKUR Kunststoff GmbH  
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### 2. Mechanical properties

Tensile modulus of elasticity	3400	[MPa]	ISO 527
Tensile strength	26	[MPa]	ISO 527
Tensile strain at tensile strength	3	[%]	ISO 527
Tensile stress at break	24	[MPa]	ISO 527
Tensile strain at break	4.5	[%]	ISO 527
Flexural modulus	3500	[MPa]	ISO 178
Flexural strain at break	6	[%]	ISO 178
Flexural stress at 3.5 % strain	41	[MPa]	ISO 178
Notched impact strength (Charpy), RT	3.6	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact strength (Charpy), RT	11	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eU
Notched impact strength (Charpy), -30 °C	-	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eA
Impact strength (Charpy), -30 °C	-	[kJ/m <sup>2</sup> ]	ISO 179-1/1 eU
Density	1.05	[g/cm <sup>3</sup> ]	ISO 1183
Bulk density	360	[kg/m <sup>3</sup> ]	ISO 60

### 3. Thermal properties

Melt temperature	160 - 180	[°C]	ISO 3146-C
Vicat A softening temperature	155	[°C]	ISO 306
Melt volume rate (190 °C/5 kg)	3 - 4	[cm <sup>3</sup> /10 min]	ISO 1133
Melt flow rate (190 °C/5 kg)	2 - 3	[g/10 min]	ISO 1133

### 4. Legal notice

The values listed have been established on standardized test specimens at standard temperature and humidity conditions. The figures should be regarded as guide values only. Under certain conditions the properties can be influenced to a significant extent by the processing conditions.

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