

Data Sheet  
**Dexnyl® PEEK 330GF30NAT.-26**

Test Item	Test Method	Conditions	Units	Test Data
<b>Mechanical Data</b>				
Tensile Strength	ISO 527	Break, 23°C	MPa	185
Tensile Elongation	ISO 527	Break, 23°C	%	2.5
Flexural Strength	ISO 178	Break, 23°C	MPa	275
Flexural Modulus	ISO 178	23°C	GPa	11.5
Compressive Strength	ISO 604	23°C	MPa	250
Charpy Impact Strength	ISO 179/1eA	Notched	kJ m <sup>-2</sup>	7.5
	ISO 179/1U	Unnotched	kJ m <sup>-2</sup>	50
Izod Impact Strength	ISO 180/A	Notched	kJ m <sup>-2</sup>	9
	ISO 180/U	Unnotched	kJ m <sup>-2</sup>	50
Mould Shrinkage	ISO 294-4	Along Flow	%	0.3
		Across Flow	%	0.8
<b>Thermal Data</b>				
Melting Point	ISO 11357	-	°C	343
Glass Transition (Tg)	ISO 11357	Onset	°C	143
Special Heat Capacity	DSC	23°C	kJ kg <sup>-1</sup> °C <sup>-1</sup>	1.7
Coefficient of Thermal Expansion	ISO 11359	Along flow below Tg	ppm K <sup>-1</sup>	20
		Along flow above Tg	ppm K <sup>-1</sup>	20
Heat Deflection Temperature	ISO 75-f	1.8 Mpa	°C	335
Thermal Conductivity	ISO 22007-4	23°C	W m <sup>-1</sup> K <sup>-1</sup>	0.3
<b>Flow</b>				
Melt Index	ISO 1133	380°C, 5kg	g 10min <sup>-1</sup>	28
<b>Miscellaneous</b>				
Density	ISO 1183	Crystalline	g cm <sup>-3</sup>	1.52
		Amorphous	g cm <sup>-3</sup>	-
Shore D Hardness	ISO 868	23°C		87
Water Absorption (3.2mm thick Tensile Bar) (by immersion)	ISO 62-1	24h, 23°C	%	0.04
		Equilibrium, 23°C	%	0.3

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**BIEGLO GmbH**  
Bahnenfelder Straße 242  
22765 Hamburg  
+49 40 4011 30000  
[info@bieglo.com](mailto:info@bieglo.com)  
[www.bieglo.com](http://www.bieglo.com)  
[www.polyimide-shop.de](http://www.polyimide-shop.de)

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