

Data Sheet
Dexnyl[®] PEEK 330GF20NAT.-26

Test Item	Test Method	Conditions	Units	Test Data
Mechanical Data				
Tensile Strength	ISO 527	Break, 23°C	MPa	145
Tensile Elongation	ISO 527	Break, 23°C	%	2.4
Flexural Strength	ISO 178	Break, 23°C	MPa	235
Flexural Modulus	ISO 178	23°C	GPa	8.5
Compressive Strength	ISO 604	23°C	MPa	-
Charpy Impact Strength	ISO 179/1eA	Notched	kJ m^{-2}	6
	ISO 179/1U	Unnotched	kJ m^{-2}	35
Izod Impact Strength	ISO 180/A	Notched	kJ m^{-2}	7
	ISO 180/U	Unnotched	kJ m^{-2}	35
Mould Shrinkage	ISO 294-4	Along Flow	%	0.3
		Across Flow	%	0.8
Thermal Data				
Melting Point	ISO 11357	-	°C	343
Glass Transition (T _g)	ISO 11357	Onset	°C	143
Special Heat Capacity	DSC	23°C	$\text{kJ kg}^{-1} \text{°C}^{-1}$	1.7
Coefficient of Thermal Expansion	ISO 11359	Along flow below T _g	ppm K^{-1}	25
		Along flow above T _g	ppm K^{-1}	25
Heat Deflection Temperature	ISO 75-f	1.8 Mpa	°C	323
Thermal Conductivity	ISO 22007-4	23°C	$\text{W m}^{-1} \text{K}^{-1}$	0.3
Flow				
Melt Index	ISO 1133	380°C,5kg	g 10min^{-1}	40
Miscellaneous				
Density	ISO 1183	Crystalline	g cm^{-3}	1.43
		Amorphous	g cm^{-3}	-
Shore D Hardness	ISO 868	23°C		86
Water Absorption (3.2mm thick Tensile Bar) (by immersion)	ISO 62-1	24h, 23°C	%	0.05
		Equilibrium, 23°C	%	0.4

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For information about divergent properties do not hesitate to contact us. On request we advise you regarding the most appropriate component design and the definition of material specifications more suitable to your application data. Notwithstanding, the customer bears all the responsibility for the thorough examination of suitability, efficiency, efficacy and safety of the chosen products in pharmaceutical applications, medical devices or other end uses. Status: June 2019

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Test Item	Test Method	Conditions	Units	Test Data
Electrical Data				
Dielectric Strength	IEC 60243-1	2mm	kV mm ⁻¹	23
Comparative Tracking Index	IEC 60112	-	V	150
Dielectric Constant	IEC 60250	23°C, 1kHz	-	3.2
		23°C, 50Hz	-	-
Loss Tangent	IEC 60250	23°C, 1MHz	-	0.004
Volume Resistivity	IEC 60093	23°C, 1V	Ω cm	10 ¹⁶
		275°C	Ω cm	-

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