

Data Sheet
Dexnyl® PEEK 550GF30NAT.-26

Test Item	Test Method	Conditions	Units	Test Data
Mechanical Data				
Tensile Strength	ISO 527	Break, 23°C	MPa	175
Tensile Elongation	ISO 527	Break, 23°C	%	2.7
Flexural Strength	ISO 178	Break, 23°C	MPa	265
Flexural Modulus	ISO 178	23°C	GPa	11.3
Compressive Strength	ISO 604	23°C	MPa	250
Charpy Impact Strength	ISO 179/1eA	Notched	kJ m^{-2}	8
	ISO 179/1U	Unnotched	kJ m^{-2}	55
Izod Impact Strength	ISO 180/A	Notched	kJ m^{-2}	10
	ISO 180/U	Unnotched	kJ m^{-2}	60
Mould Shrinkage	ISO 294-4	Along Flow	%	0.3
		Across Flow	%	0.8
Thermal Data				
Melting Point	ISO 11357	-	°C	343
Glass Transition (Tg)	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 Tg	ppm K^{-1}	18
		Along flow above Tg	ppm K^{-1}	18
Heat Deflection Temperature	ISO 75-f	1.8 Mpa	°C	328
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}	6
Miscellaneous				
Density	ISO 1183	Crystalline	g cm^{-3}	1.51
		Amorphous	g cm^{-3}	-
Shore D Hardness	ISO 868	23°C		88
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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