

Stanyl® ForTii™ H11 (NC1113E)

PA4T-GF30 FR(40)

DSM Engineering Plastics

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.1 / *	%	ISO 294-4, 2577
Mechanical properties			
ISO Data			
Tensile Modulus	11000 / -	MPa	ISO 527-1/-2
Stress at break	140 / -	MPa	ISO 527-1/-2
Strain at break	1.9 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	40 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9.5 / -	kJ/m ²	ISO 179/1eA
Thermal properties			
ISO Data			
Melting temperature (10°C/min)	325 / *	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	125 / *	°C	ISO 11357-1/-2
Temp. of deflection under load (1.80 MPa)	295 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0 / *	class	IEC 60695-11-10
UL recognition	UL / *	-	-
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-
Electrical properties			
ISO Data			
Relative permittivity, 100Hz	4.4 / -	-	IEC 60250
Relative permittivity, 1MHz	4.1 / -	-	IEC 60250
Dissipation factor, 100Hz	60 / -	E-4	IEC 60250
Dissipation factor, 1MHz	180 / -	E-4	IEC 60250
Other properties			
ISO Data			
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1460 / -	kg/m ³	ISO 1183
Characteristics			
Processing		Special Characteristics	
Injection Molding		Flame retardant	
Delivery form			
Pellets			