

Stanyl® ForTii™ F81

PA4T-GF15 FR(40)

DSM Engineering Plastics

Product Texts

15% Glass Reinforced, Improved flow, Flame Retardant, Halogen free and free of red phosphorous

ISO 1043 PA4T-GF15 FR(40)

[Stanyl ForTii website](#)

Rheological properties	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.5 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.2 / *	%	ISO 294-4, 2577

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	7000 / 7000	MPa	ISO 527-1/-2
Stress at break	105 / 110	MPa	ISO 527-1/-2
Strain at break	2 / 2.1	%	ISO 527-1/-2
Charpy impact strength (+23°C)	30 / 30	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	7 / 7	kJ/m²	ISO 179/1eA

Thermal properties	dry / cond	Unit	Test Standard
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)	300 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	320 / *	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0 / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10
UL recognition	UL / *	-	-

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Electric strength	33 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	5.8 / *	%	Sim. to ISO 62
Humidity absorption	2.15 / *	%	Sim. to ISO 62
Density	1340 / -	kg/m³	ISO 1183

Characteristics**Processing**

Injection Molding

Special Characteristics

Flame retardant

Delivery form

Pellets