


Stanyl® ForTii™ F31
PA4T-(GF+MF)35 FR DSM Engineering Plastics
Product Texts

35% Glass/Mineral Reinforced, Halogen free and free of red phosphorous, Low Warpage

ISO 1043 PA4T-(GF+MF)35 FR

Rheological properties dry / cond Unit Test Standard
ISO Data

Molding shrinkage, parallel	0.3 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0 / *	%	ISO 294-4, 2577

Mechanical properties dry / cond Unit Test Standard
ISO Data

Tensile Modulus	12000 / 12000	MPa	ISO 527-1/-2
Stress at break	105 / 105	MPa	ISO 527-1/-2
Strain at break	1.3 / 1.3	%	ISO 527-1/-2
Charpy impact strength (+23°C)	25 / 25	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	5 / 5	kJ/m ²	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)	295 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	315 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	25 / *	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	45 / *	E-6/K	ISO 11359-1/-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 / *	-	-
Oxygen index	39 / *	%	ISO 4589-1/-2

Electrical properties dry / cond Unit Test Standard
ISO Data

Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties dry / cond Unit Test Standard
ISO Data

Humidity absorption	1.6 / *	%	Sim. to ISO 62
Density	1520 / -	kg/m ³	ISO 1183

Material specific properties dry / cond Unit Test Standard
ISO Data

Viscosity number	74 / *	cm ³ /g	ISO 307, 1157, 1628
------------------	--------	--------------------	---------------------

Characteristics
Processing

Injection Molding

Additives

Lubricants, Release agent

Stanyl® ForTii™ F31

PA4T-(GF+MF)35 FR

DSM Engineering Plastics

Delivery form

Granules

Special Characteristics

Flame retardant