TER GROUP TER Plastics POLYMER GROUP

DSM

TECHNICAL DATA SHEET

Stanyl® ForTii™ K12

PA4T-GF40 DSM Engineering Plastics

Product Texts

40% Glass Reinforced, for E&E applications

ISO 1043 PA4T-GF40

Mechanical properties	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	13500 / -	MPa	ISO 527-1/-2
Stress at break	210 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	65 / -	kJ/m²	ISO 179/1eU
Charpy notched impact strength (+23°C)	11 / -	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)	305 / *	°C	ISO 75-1/-2
Temp. of deflection under load (0.45 MPa)	320 / *	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10
Burning behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.8 / *	mm	IEC 60695-11-10

Electrical properties	dry / cond	Unit	Test Standard
ISO Data			
Relative permittivity, 100Hz	5 / 5	-	IEC 60250
Relative permittivity, 1MHz	4.5 / 4.5	-	IEC 60250
Dissipation factor, 100Hz	120 / 120	E-4	IEC 60250
Dissipation factor, 1MHz	250 / 250	E-4	IEC 60250
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 60093
Surface resistivity	* / >1E15	Ohm	IEC 60093
Electric strength	33 / 33	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	-	IEC 60112

Other properties	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	4.8 / *	%	Sim. to ISO 62
Humidity absorption	1.8 / *	%	Sim. to ISO 62
Density	1510 / -	kg/m³	ISO 1183

Characteristics

Processing
Injection Molding

Additives
Lubricants, Release agent

Delivery form
Granules