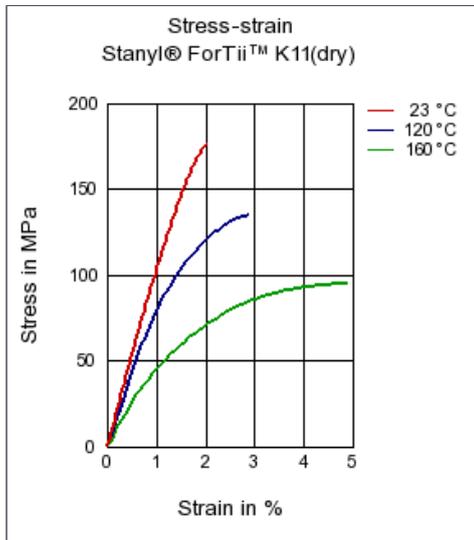




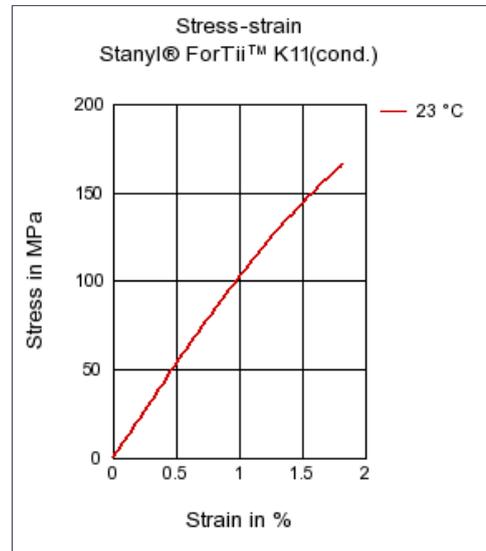
Stanyl® ForTii™ K11			
PA4T-GF30		DSM Engineering Plastics	
Product Texts			
30% Glass Reinforced, for E&E applications, Good Flow			
ISO 1043 PA4T-GF30			
Rheological properties			
	dry / cond	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4 / *	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3 / *	%	ISO 294-4, 2577
Mechanical properties			
	dry / cond	Unit	Test Standard
ISO Data			
Tensile Modulus	11000 / -	MPa	ISO 527-1/-2
Stress at break	180 / -	MPa	ISO 527-1/-2
Strain at break	2 / -	%	ISO 527-1/-2
Charpy impact strength (+23°C)	55 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	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)	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	150 / 150	E-4	IEC 60250
Dissipation factor, 1MHz	280 / 280	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 / 600	-	IEC 60112
Other properties			
	dry / cond	Unit	Test Standard
ISO Data			
Water absorption	5.5 / *	%	Sim. to ISO 62
Humidity absorption	2.1 / *	%	Sim. to ISO 62
Density	1410 / -	kg/m ³	ISO 1183
Material specific properties			
	dry / cond	Unit	Test Standard
ISO Data			
Viscosity number	98 / *	cm ³ /g	ISO 307, 1157, 1628

Diagrams

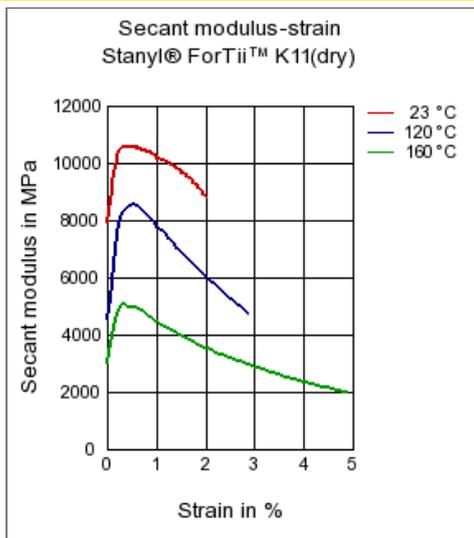
Stress-strain



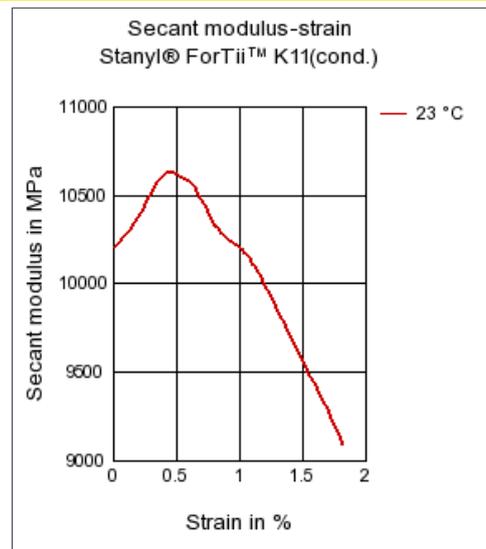
Stress-strain



Secant modulus-strain



Secant modulus-strain



Characteristics

Processing

Injection Molding

Additives

Lubricants, Release agent

Delivery form

Granules