

ForTii® WF11 (P788A)

(PPA+PTFE)-GF35

35% Glass Reinforced, PA4T, Heat Stabilized, Wear and Friction Modified

Print Date: 2018-12-13

Properties	Typical Data	Unit	Test Method
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.3 / *	%	ISO 294-4
Molding shrinkage (normal)	0.8 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	13000 / 13000	MPa	ISO 527-1/-2
Tensile modulus (-40°C)	13400 / -	MPa	ISO 527-1/-2
Tensile modulus (80°C)	12400 / -	MPa	ISO 527-1/-2
Tensile modulus (120°C)	8500 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	5800	MPa	ISO 527-1/-2
Tensile modulus (180°C)	5400	MPa	ISO 527-1/-2
Tensile modulus (200°C)	5400	MPa	ISO 527-1/-2
Stress at break	210 / 185	MPa	ISO 527-1/-2
Stress at break (-40°C)	250 / -	MPa	ISO 527-1/-2
Stress at break (80°C)	175 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	115 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	85	MPa	ISO 527-1/-2
Stress at break (180°C)	75	MPa	ISO 527-1/-2
Stress at break (200°C)	70	MPa	ISO 527-1/-2
Strain at break	2.2 / 2	%	ISO 527-1/-2
Strain at break (-40°C)	2.3 / -	%	ISO 527-1/-2
Strain at break (80°C)	2.2 / -	%	ISO 527-1/-2
Strain at break (120°C)	4.5 / -	%	ISO 527-1/-2
Strain at break (160°C)	6	%	ISO 527-1/-2

Property Data (Provisional)

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Strain at break (180°C)	6	%	ISO 527-1/-2
Strain at break (200°C)	6	%	ISO 527-1/-2
Flexural modulus	12000 / -	MPa	ISO 178
Flexural strength	300 / -	MPa	ISO 178
Charpy impact strength (+23°C)	75 / 60	kJ/m ²	ISO 179/1eU
Charpy impact strength (-30°C)	65 / 55	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	9 / 9	kJ/m ²	ISO 179/1eA
Charpy notched impact strength (-30°C)	8 / 8	kJ/m ²	ISO 179/1eA

Thermal properties

dry / cond

Melting temperature (10°C/min)	325 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	305 / *	°C	ISO 75-1/-2
Coeff. of linear therm. expansion (parallel)	0.17 / *	E-4/°C	ISO 11359-1/-2
Coeff. of linear therm. expansion (normal)	0.6 / *	E-4/°C	ISO 11359-1/-2

Other properties

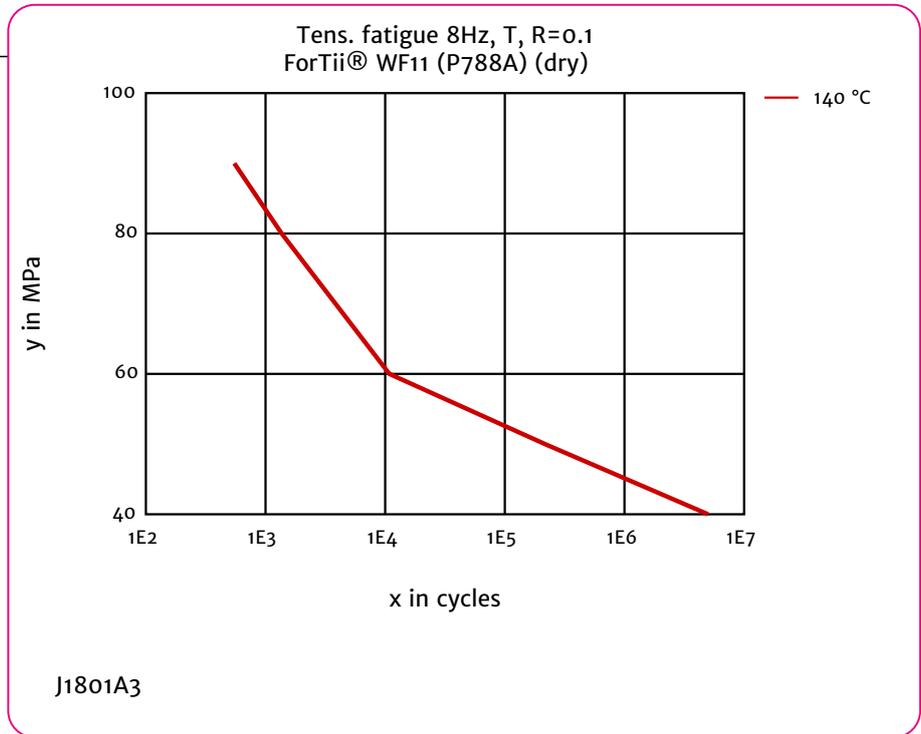
dry / cond

Humidity absorption	1.4 / *	%	Sim. to ISO 62
Density	1570 / -	kg/m ³	ISO 1183

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Tens. fatigue 8Hz, T, R=0.1 ,
dry



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