

# ForTii® Ace MX50SP

## PPA-I-GF20

20% Glass Reinforced, PA4T, Impact Modified, Electro-friendly

Print Date: 2019-10-19

Properties	Typical Data	Unit	Test Method
<b>Mechanical properties</b>	<b>dry / cond</b>		
Tensile modulus	7500 / -	MPa	ISO 527-1/-2
Tensile modulus (-40°C)	8000 / -	MPa	ISO 527-1/-2
Tensile modulus (40°C)	7400 / -	MPa	ISO 527-1/-2
Tensile modulus (80°C)	7100 / -	MPa	ISO 527-1/-2
Tensile modulus (100°C)	7000 / -	MPa	ISO 527-1/-2
Tensile modulus (120°C)	6900 / -	MPa	ISO 527-1/-2
Tensile modulus (150°C)	4600	MPa	ISO 527-1/-2
Tensile modulus (160°C)	3800	MPa	ISO 527-1/-2
Tensile modulus (180°C)	3000	MPa	ISO 527-1/-2
Tensile modulus (200°C)	2800	MPa	ISO 527-1/-2
Stress at break	150 / -	MPa	ISO 527-1/-2
Stress at break (-40°C)	170 / -	MPa	ISO 527-1/-2
Stress at break (40°C)	145 / -	MPa	ISO 527-1/-2
Stress at break (80°C)	130 / -	MPa	ISO 527-1/-2
Stress at break (100°C)	120 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	110 / -	MPa	ISO 527-1/-2
Stress at break (150°C)	76	MPa	ISO 527-1/-2
Stress at break (160°C)	68	MPa	ISO 527-1/-2
Stress at break (180°C)	60	MPa	ISO 527-1/-2
Stress at break (200°C)	54	MPa	ISO 527-1/-2
Strain at break	2.6 / -	%	ISO 527-1/-2
Strain at break (-40°C)	2.6 / -	%	ISO 527-1/-2
Strain at break (40°C)	2.6 / -	%	ISO 527-1/-2

Property Data (Provisional)

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Strain at break (80°C)	2.6 / -	%	ISO 527-1/-2
Strain at break (100°C)	2.6 / -	%	ISO 527-1/-2
Strain at break (120°C)	2.6 / -	%	ISO 527-1/-2
Strain at break (150°C)	4.2	%	ISO 527-1/-2
Strain at break (160°C)	5.3	%	ISO 527-1/-2
Strain at break (180°C)	6	%	ISO 527-1/-2
Strain at break (200°C)	6	%	ISO 527-1/-2
Flexural modulus	7100 / -	MPa	ISO 178
Flexural strength	220 / -	MPa	ISO 178
Charpy impact strength (+23°C)	48 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy impact strength (-30°C)	38 / -	kJ/m <sup>2</sup>	ISO 179/1eU
Charpy notched impact strength (+23°C)	6 / -	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength (-30°C)	5.8 / -	kJ/m <sup>2</sup>	ISO 179/1eA

## Thermal properties

dry / cond

Melting temperature (10°C/min)	335 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	313 / *	°C	ISO 75-1/-2

## Other properties

dry / cond

Humidity absorption	1.9 / *	%	Sim. to ISO 62
Density	1320 / -	kg/m <sup>3</sup>	ISO 1183