

ForTii® Ace WX53-FC

PPA-GF50

50% Glass Reinforced, PA4T, Food Contact Quality, Drinking Water Grade

Print Date: 2019-10-17

ForTii® Ace WX53-FC has best in class high temperature and wet mechanical performance, weldline strength and weldline strength retention in hot water and steam. For detailed statements and information regarding food contact and water contact approvals please contact your DSM Engineering Plastics' representative.

Properties	Typical Data	Unit	Test Method
Mechanical properties	dry / cond		
Tensile modulus	17500 / 17500	MPa	ISO 527-1/-2
Tensile modulus (120°C)	16000 / -	MPa	ISO 527-1/-2
Tensile modulus (160°C)	8000	MPa	ISO 527-1/-2
Tensile modulus (200°C)	6500	MPa	ISO 527-1/-2
Stress at break	270 / 270	MPa	ISO 527-1/-2
Stress at break (120°C)	170 / -	MPa	ISO 527-1/-2
Stress at break (160°C)	100	MPa	ISO 527-1/-2
Stress at break (200°C)	65	MPa	ISO 527-1/-2
Strain at break	2.3 / 2.3	%	ISO 527-1/-2
Strain at break (120°C)	2.2 / -	%	ISO 527-1/-2
Strain at break (160°C)	4.6	%	ISO 527-1/-2
Strain at break (200°C)	4.4	%	ISO 527-1/-2
Flexural modulus	18000 / -	MPa	ISO 178
Flexural strength	420 / -	MPa	ISO 178
Charpy impact strength (+23°C)	85 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	15 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	333 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	305 / *	°C	ISO 75-1/-2
Burning Behav. at 1.5 mm nom. thickn.	HB / *	class	IEC 60695-11-10

Property Data (Provisional)

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Properties	Typical Data	Unit	Test Method
Thickness tested	0.75 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	3 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Electrical properties	dry / cond		
Electric strength	43 / -	kV/mm	IEC 60243-1
Other properties	dry / cond		
Density	1660 / -	kg/m ³	ISO 1183