

ForTii® Ace WX51-FC

PPA-GF30

30% Glass Reinforced, PA4T, Food Contact Quality, Drinking Water Grade

Print Date: 2019-10-17

ForTii® Ace WX51-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
Rheological properties	dry / cond		
Molding shrinkage (parallel)	0.43 / *	%	ISO 294-4
Molding shrinkage (normal)	1.2 / *	%	ISO 294-4
Mechanical properties	dry / cond		
Tensile modulus	10500 / 10500	MPa	ISO 527-1/-2
Tensile modulus (80°C)	10000 / -	MPa	ISO 527-1/-2
Tensile modulus (120°C)	9500 / -	MPa	ISO 527-1/-2
Stress at break	210 / 190	MPa	ISO 527-1/-2
Stress at break (80°C)	180 / -	MPa	ISO 527-1/-2
Stress at break (120°C)	150 / -	MPa	ISO 527-1/-2
Strain at break	2.6 / 2.5	%	ISO 527-1/-2
Strain at break (80°C)	2.7 / -	%	ISO 527-1/-2
Strain at break (120°C)	3 / -	%	ISO 527-1/-2
Flexural modulus	10000 / -	MPa	ISO 178
Flexural strength	290 / -	MPa	ISO 178
Charpy impact strength (+23°C)	70 / -	kJ/m ²	ISO 179/1eU
Charpy notched impact strength (+23°C)	10 / -	kJ/m ²	ISO 179/1eA
Thermal properties	dry / cond		
Melting temperature (10°C/min)	340 / *	°C	ISO 11357-1/-3
Temp. of deflection under load (1.80 MPa)	320 / *	°C	ISO 75-1/-2

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Properties	Typical Data	Unit	Test Method
Burning Behav. at thickness h	HB / *	class	IEC 60695-11-10
Thickness tested	0.4 / *	mm	IEC 60695-11-10
UL recognition	Yes / *	-	-
Electrical properties	dry / cond		
Volume resistivity	>1E13 / >1E13	Ohm*m	IEC 60093
Electric strength	45 / -	kV/mm	IEC 60243-1
Comparative tracking index	600 / -	V	IEC 60112
Other properties	dry / cond		
Humidity absorption	2 / *	%	Sim. to ISO 62
Density	1460 / -	kg/m ³	ISO 1183