

ForTii[®] Ace WX51–FC

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This guick start instruction gives an indication of the key settings for processing ForTil® Ace WX51–FC to ensure best crystallization and prevent material degradation as a result of hydrolysis or thermal load. It is a summary of the Injection Molding Recommendations which can be found in our Plastics Finder at https://envalior.plasticsfinder.com. Our online guidelines are recommendations to help with material processing and/or to evaluate and resolve potential processing issues.

MATERIAL HANDLING

<u>Druina</u>

ForTii® Ace grades are hygroscopic and absorb moisture from the air relatively quickly. Moisture absorption is fully reversible under the following drying conditions without compromising material quality. Preferred driers are de-humidified driers with dew points maintained between -30 and -40°C /-22 and -40° F. Vacuum driers with N₂ purge can also be used. Hot air ovens or hopper driers are not suitable for pre-druing ForTii[®] Ace grades; the use of such driers may result in non-optimum performance.

Moisture content	Time	Temperature	
[%]	[h]	[° C]	[° F]
0.1 - 0.2 and as delivered	2-4	100 - 130	212 – 266

TEMPERATURE SETTINGS

Barrel temperature

Due to the high melting point of ForTii[®] Ace this temperature should be set high enough to provide a homogeneous melt without getting too near to the degradation temperature of 370°C / 698°F. A flat or rising temperature profile is recommended. Optimal settings are governed by barrel size and residence time.

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Mold/Tool	Measured melt	Nozzle	Front	Center	Rear	
120 - 200°C 248 - 392°F	350–370°C 662–698°F	350–370°C <i>662–698°F</i>	340–350°C 644–662°F	340–350°C 644–662°F	330–340°C 626–644°F	

MELT RESIDENCE TIME

The optimal Melt Residence Time (MRT) for ForTii® Ace WX51–FC is < 2 minutes with preferably at least 50% of the maximal shot volume used. The MRT should not exceed 4 minutes. A full self-service MRT calculation can be done using the following link.

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