

Arnitel[®] FM8226

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This quick start instruction gives an indication of the key settings for processing Arnitel[®] FM8226 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

Drying

Arnitel[®] 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-drying Arnitel[®] grades; the use of such driers may result in non-optimum performance.

Moisture content	Time	Temperature	
		[°C]	[°F]
[%]	[h]		
<0.05 and as delivered	3-4	100	212
>0.05-0.2	4-6	100	212

TEMPERATURE SETTINGS

Barrel temperature

The given temperature settings are general for Arnitel[®]. Optimal settings are governed by barrel size and residence time.

Additionally, a higher hardness and higher melting point of the Arnitel[®], requires a barrel temperature at the higher side.

Mold/Tool	Measured melt	Nozzle	Front	Center	Rear
20 - 50°C 68 - 122°F	190-210°C 374-410°F	190-210°C 374-410°F	180-200°C 356-392°F	170-190°C 338-374°F	160-180°C 320-356°F

MELT RESIDENCE TIME

The optimal Melt Residence Time (MRT) for Arnitel[®] FM8226 is ≤ 5 minutes with preferably at least 50% of the maximal shot volume used. The MRT should not exceed 6 minutes.

A full self-service MRT calculation can be done using the following [link](#).

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