

Arnite[®] TV4 261 SF

Print Date: 2024-03-14

This guick start instruction gives an indication of the key settings for processing Arnite[®] TV4 261 SF 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://plasticsfinder.com. Our online guidelines are recommendations to help with material processing and/or to evaluate and resolve potential processing issues.

MATERIAL HANDLING

Druina

Preferred driers are de-humidified driers with dew points maintained between -20 and -30° C / -4and -22°F. Vacuum driers with N₂ purge can also be used.

Moisture content	Time	Temperature	
[%]	[h]	[° C]	[° F]
as delivered	3–6	100–120	212–248
open bag	3–12	100–120	212–248

Warm, dried granules should be prevented from cooling down and coming into contact with ambient air before entering the cylinder. Pellets should be fed with hot dried air straight from the hopper drier into the culinder or via a closed loop sustem using hot dried air, from the stand-alone drier into the culinder.

TEMPERATURE SETTINGS

Barrel temperature

Optimal settings are governed by barrel size and residence time. Furthermore, the level of glass and/or mineral reinforcement and the presence or absence of flame retardant have to be taken into account.

(
Mold/Tool	Measured melt	Nozzle	Front	Center	Rear	
60 – 100°C 140 – 212°F	240–260°C 464–500°F	240–260°C 464–500°F	240–255°C 464–491°F	235–250°C 455–482°F	230–240°C 446–464°F)

MELT RESIDENCE TIME

The optimal Melt Residence Time (MRT) for Arnite[®] TV4 261 SF is < 6 minutes with preferably at least 50% of the maximal shot volume used. The MRT should not exceed 10 minutes. A full self-service MRT calculation can be done using the following link.

each and every representation or warranty, whether express or implied, in that respect.

Copuright @ Envalior 2024, All rights reserved. No part of the information may be reproduced, distributed, or transmitted in any form or by any means, including photocopying, recording electronic or mechanical methods, without the prior written permission of Envalior

All the trademarks mentioned here are trademarks of Envalior

Seller represents and warrants exclusively that on the date of delivery by Seller the product shall be in conformity with the specifications agreed upon. Seller makes no other representations or warranties, whether express or implied. Seller is not responsibility of the Customer to determine that the Seller's product is safe, complies with application laws and regulations, and is technically or otherwise fit for its intended use. Seller does not endorse or claim suitability of its products for a specific application and disclaims

Typical values are indicative only and are not to be construed as being binding specifications. Colorants in the product or other additives may cause significant variations in typical values