

Arnitel[®] E1–UV

Copolyetherester

UV Masterbatch, 30% Active UV stabilizing ingredients, TPC based

Print Date: 2024–09–17

Envalior offers a complete portfolio of thermoplastic polyester elastomers. These materials, sold under the trade name Arnitel[®], combine excellent flexibility at low temperatures (down to –50°C) with good heat resistance. Arnitel[®] has an intrinsic stability against UV, however if high UV performance is required we advise to use the UV stabilization masterbatch Arnitel[®] E1–UV. The figure on the next page shows the reference UV stability and the effect of adding different amounts of Arnitel[®] E1–UV to different Arnitel[®] E types. In the graph the effect of UV ageing according to the UV test PSA D27 1389 at different masterbatch loadings (x–axis) on the half life time (HLT) of the elongation at break of ISO 527 1BA tensile bars is given. HLT is defined as the time point where the elongation is 50% of the original value. Arnitel[®] E1–UV can be used for injection molding and extrusion applications. It is based on an Arnitel[®] carrier and shows good dispersion in any Arnitel[®] type.

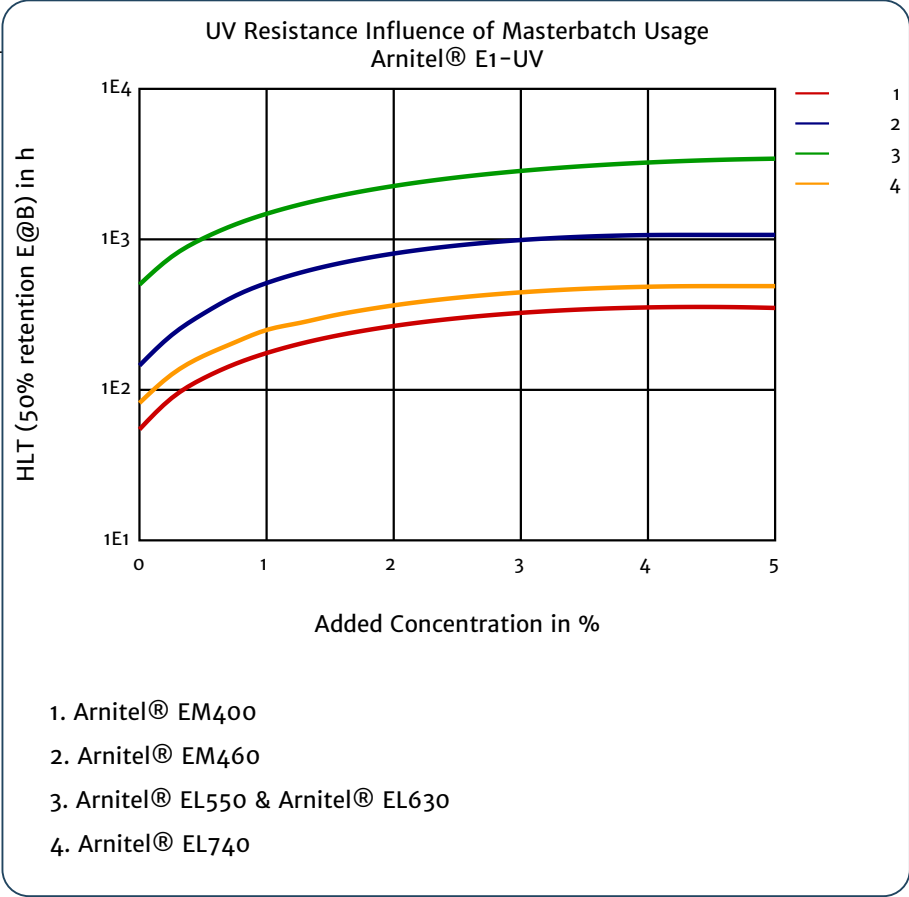
PROPERTIES	TYPICAL DATA	UNIT	TEST METHOD
MATERIAL SPECIFIC PROPERTIES	VALUE		
Melting Point	145 – 160	°C	
Active UV stabilizing ingredients	29 – 31	%	
Usage for optimal performance	1.5 – 3.0	%	

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UV Resistance Influence of Masterbatch Usage



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