

Arnitel® E1-UV

Envalior - Copolyester Elastomer (Ether)

General Information

Product Description

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

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.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• UV Stabilizer: 30%		
Features	• Good Weather Resistance	• UV Stabilized	
Uses	• Masterbatch		
Resin ID	• Copolyetherester		

Properties ¹

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature ²	-2.20	°F	ISO 11357-2
Melting Temperature ²	302	°F	ISO 11357-3
Melting Temperature	293 to 320	°F	
Additional Information	Nominal Value	Unit	Test Method
Usage	1.5 to 3.0	%	

Notes

¹ Typical properties: these are not to be construed as specifications.

² 10°C/min

