



## 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	• Europe	• North America
• Asia Pacific			• Latin America
Additive	• UV Stabilizer: 30%		
Features	• Good Weather Resistance     • UV Stabilized		
Uses	• Masterbatch		
Resin ID	• Copolyetherester		

### Properties <sup>1</sup>

Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature <sup>2</sup>	-2.20	°F	ISO 11357-2
Melting Temperature <sup>2</sup>	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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 10°C/min

