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**Performance Data Sheet** 



## **EXTRACTION**

Water and solvent extraction comparative data

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Epoxidized plasticizers, due to their intrinsic higher polarity, present higher water extraction than traditional, petroleum-based materials.

The chart on the right shows the weight change for formulations with different plasticizers, as a % over time. After drying the weight change of the compounds formulated with Innoleic<sup>™</sup> products were negative, indicating water extraction.

For applications with constant contact with water, such as swimming pool liners, Innoleic^ ${\rm TM}$  products may not achieve the desired minimum



specifications. But for outdoors applications, although exposed to rain, the UV protection that the oxirane rings confer to epoxidized plasticizers may compensate for the higher water extraction, resulting in a longer duration material. It is important to evaluate the material for the specific conditions and performance requirements of each application.



On the other hand, the extraction by solvents, such as isoparaffin (C13-C15 isomers), is reduced when compared to petroleum-based materials. The chart on the left shows that effect for Innoleic<sup>TM</sup> E1 compared to DOP and DOA.

This same effect is also observed for other petroleumbased aliphatic solvents, such as Hexane and LPG.

This information refers only to the specific material here described and cannot be considered valid in case the material is used in combination with any other materials or processes. It is the user's entire responsibility to ensure that the material is adequate for its purpose and use. Innoleics cannot accept any liability for losses or damages that might incur due to the use of this information, nor offer any assurance against intellectual property violations