

LOTADER® 4700T

New SKFP Impact Modifier For Polyamide Compounds

SK Functional Polymer (SKFP) introduces **Lotader® 4700T**, a **new impact modifier for polyamides**.

Lotader® 4700T is a highly reactive ethylene / ethyl acrylate / maleic anhydride terpolymer specifically designed for high impact resistance polyamide compounds.

The introduction of Lotader® 4700T comes as an extension of SK functional polymer range of tubular Lotader® terpolymers. It has the same composition as Lotader® 4700, but benefits from the tubular synthesis process. This brings a higher melting temperature and an improved dispersion into polyamides.

Lotader® 4700T has been successfully tested in several polyamides such as **PA6 and PA6.6**. It brings **high toughness** while maintaining **good compounds fluidity**. This enables injection molding of complex shapes. It is also helpful in improving the performance of **recycled polyamides** for use in automotive applications.

SKFP research group showed that **Lotader® 4700T** can perform even when used directly in injection molding for medium toughness **PA formulations**. **The direct injection of dry-blend polyamide and Lotader® 4700 additive** enables to produce economically injection molded parts.



Typical characteristics of Lotader® 4700T

Characteristics	Value	Unit	Standard
Ethyl Acrylate content	29	%w	FTIR (internal method)
MAH content	1.3%	%w	FTIR (internal method)
Melting point	75	°C	ISO 11357-3
Melt Index (190°C/2.16kg)	7	g/10min	ISO 1133 / ASTM D1238
Glass transition temperature	-41	°C	DSC (internal method)
Vicat softening temperature (10N)*	<40	°C	ISO 306 / ASTM D1525

*On compression moulded sample

SK Functional Polymer (SKFP) is a newly established company headquartered in Paris, France, following the acquisition of Arkema's Functional Polyolefins business by SK Global Chemical in June 2020. SK Functional Polymer has more than 50 years of experience in the development and supply of specialty polyolefins products from manufacturing facilities in Europe. SKFP products are sold under the brand names of Lotader®, Lotryl®, Orevac® and Evatane®. They are used in applications such as Packaging, Automotive, Construction and also in the Circular Economy. SKFP produces its resins in three main plants located in Europe. SKGC, mother company of SKFP, proposes a wide range of plastic materials for the Packaging and Automotive industries. For more information, visit www.sk-fp.com