

SCONA TSPOE 1012 GBLL

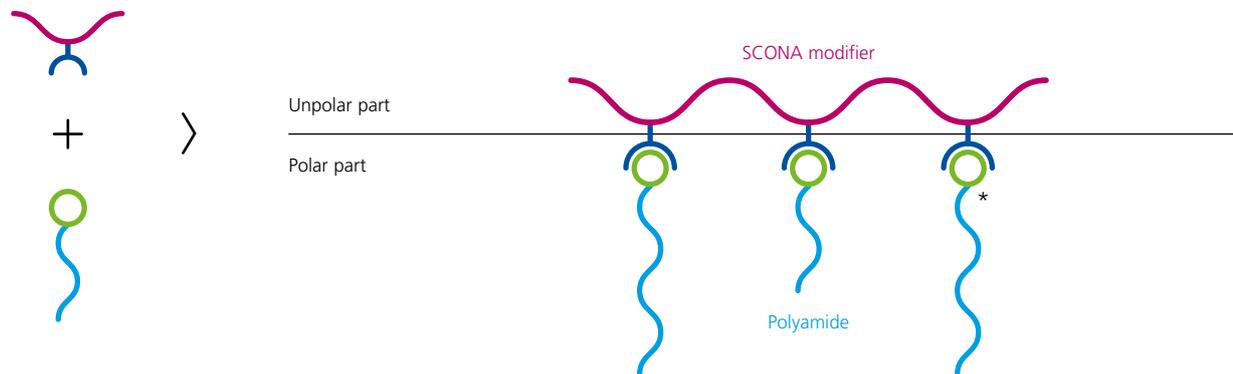
Impact modifier for polyamide compositions to provide optimized performance under high heat processing conditions, superior flowability and high impact strength

SCONA TSPOE 1012 GBLL is an impact modifier based on a maleic anhydride modified polyolefin elastomer. The additive performance under high heat processing conditions provides a superior flowability in the final composition and improves the notched and unnotched impact strength of polyamides (e.g. polyamide 6, polyamide 6.6).

Furthermore, SCONA TSPOE 1012 GBLL can be used as a compatibilizer for blends of polyolefins (e.g. LLDPE) and polar polymers (e.g. PA 6) as well as to incorporate impurities in polyolefin recycling streams. The benefits can be found in consequently optimized mechanical and optical properties.

Compatibility enhancement mechanism of SCONA TSPOE 1012 GBLL

Amphiphilic compatibilizer "tenside molecule"



● Acidic/anhydride group ● Amine group ● SCONA modifier ● Polyamide

* Simplified reaction scheme with the amine end-group, however the internal amide groups can also take part in the reaction.

Key benefits

- Superior toughness modification
- Excellent flowability
- Improved notched impact strength
- Particularly thermostable
- High heat processing

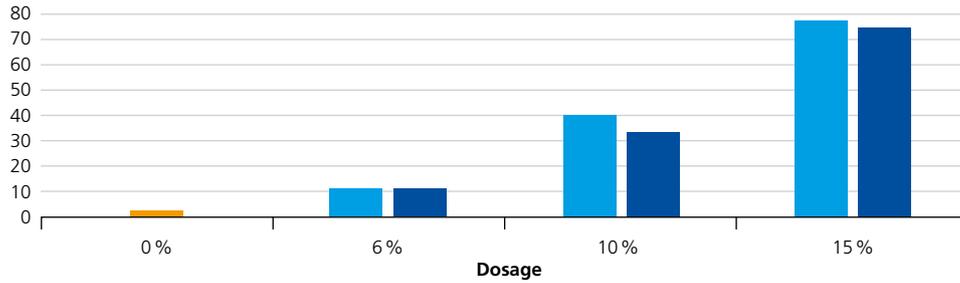
Areas of application

1. Impact modifier for polyamide compounds
2. Compatibilizer for mixtures of polyolefins and polar polymers (PA, PET)
3. Compatibilizer in recycling streams to improve mechanical and optical properties

Impact performance

Charpy notched impact strength – Conditioning state: dry as moulded

@ 23 °C (KJ/m²)

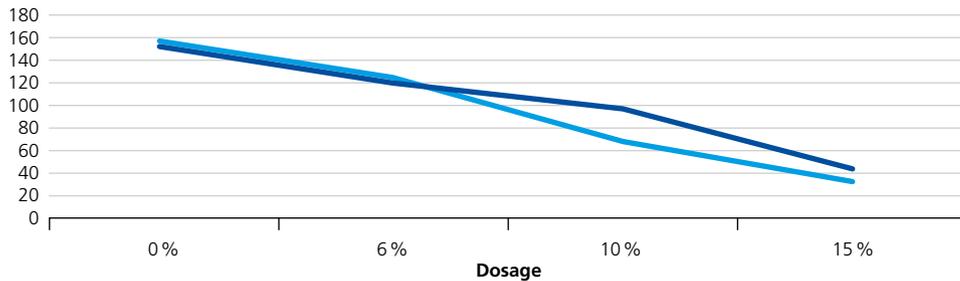


● Polyamide 6 (not modified) ● Market standard ● SCONA TSP0E 1012 GBL

Reduced influence on viscosity

Melt volume rate (MVR)

MVR 275 °C/5 kg (cm³/10 min)



● Market standard ● SCONA TSP0E 1012 GBL



SCONA TSP0E 1012 GBL is the next generation of impact modifier for polyamide compositions. It provides optimized performance under high-heat processing conditions and offers superior flowability and high impact strength for PA6 and PA6.6 applications.



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