OREVAC® LOTADER®



Toughening Polyamide

Polyamide (PA) thermoplastic resins are one of the major engineering and high-performance plastics used today thanks to their excellent balance of processibility and mechanical properties. Mostly used in technical applications, particularly for the automo-tive industry, improved impact performance at ambient or low temperature is critical.

Arkema has developed very effective impact modifiers for PA and glass-reinforced PA compounds. Lotader® ethylene-acrylate-maleic anhydride terpolymers and Orevac® maleic anhydride grafted polyolefins allow manufacturers to meet technical specifi-cation for PA 6, PA 66, PA 11, PA 12 and glass-reinforced PA compounds.

SK Functional Polymer Resins for PA Impact Modification

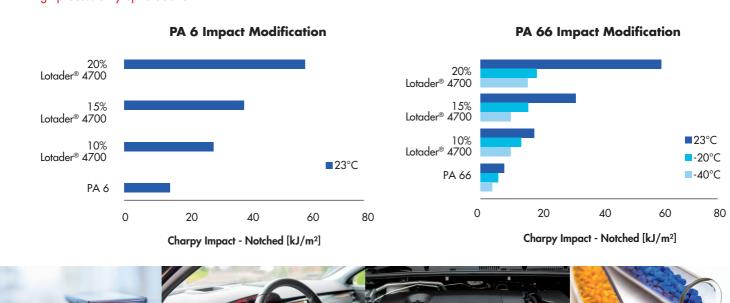
	High Fluidity	Super-Toughness Below -15°C	Super-Toughness Above -15°C	Glass-Reinforced	Cost
Lotader® 4700			✓	✓	\$
Orevac® IM300	✓			✓	\$\$
Orevac® IM800		✓	✓	✓	\$\$

LOTADER® 4700 FOR PA IMPACT MODIFICATION

Lotader® 4700 provides outstanding processibility and excellent toughening at room temperature of PA 6 and PA 66. The reactive maleic anhydride group enables chemical bonds, boosting adhesion of impact modifier to the polyamide phase. At 15 wt.-% to 20 wt.-% loading, compounds can reach super-tough impact modification at room temperature at a competitive cost.

Key Benefits:

- General-purpose impact resistance at room temperature
- High processibility up to 300°C

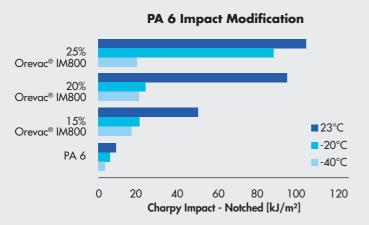


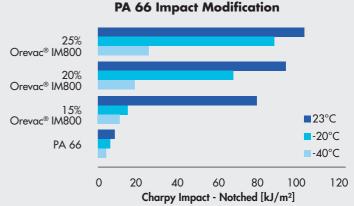
OREVAC® IM300 & IM800 FOR PA IMPACT MODIFICATION

Orevac® IM800 is the most effective impact modifier for polyamide. It enables super-tough performance at room temperature and low temperatures down to -40°C with a very low ductile/brittle transition temperature. In applications such as automotive, using **Orevac® IM800** can increase significantly low temperature impact strength with optimum stiffness.

Key Benefits:

- Excellent impact resistance at low temperatures down to -40°C
- Optimum balance between stiffness & toughness

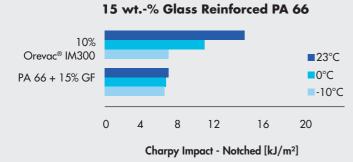


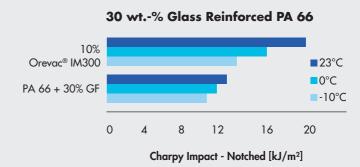


Orevac® IM300 can also be used to boost polyamide impact strength. Orevac® IM300 has been specifically designed in order to reach excellent fluidity while maintaining impact strength and mechanical properties. Thanks to its low reactivity, Orevac® IM300 reduces compound melt viscosity and improves mould filling and surface appearance of glass-filled injection moulded parts.

Key Benefits:

- Excellent impact resistance at room temperature
- High fluidity for improved productivity





Disclaimer: Please consult SK Functional Polymer disclaimer regarding the use of SK FP products on https://www.lotader.com/en/technical-literature/disclaimer.index.html Regulatory information: for information on regulatory compliance, consult your local representative. Read and understand the Material Safety Data Sheet (MSDS) before using these products.







