COMMUNIQUÉ DE PRESSE
PRESS RELEASE

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Arkema completes its reactive polyolefins range with two grades to fine-tune compounds properties

Lotader® AX resins are widely used as reactive agents to improve the processability as well as the impact resistance of thermoplastic polyesters (PET/PBT), polyphenylene sulfide (PPS) compounds. They also increase the rutting resistance of polymeric modified road pavements. Two new grades, Lotader® AX8750 and AX8930 copolymers, have been designed to complete Arkema's range of impact modifiers and/or compatibilizers, which enables processors to play, depending on the dosage, on various properties of the compounds: fluidity in processing, impact resistance and mechanical strength.

The Lotader® resins are a unique range of reactive ethylene copolymers, functionalized with anhydride or epoxide groups. These products combine the processability of low density polyethylene and the reactivity necessary for compatibility with engineering resins. The Lotader® AX terpolymers meet the need to flexibilize engineering plastics such as polyamides, thermoplastic polyesters, and polysulfones. **Lotader® AX8750** and **AX8930** new grades have been formulated to speed up the manufacturing productivity of these compounds while maintaining excellent impact resistance and mechanical properties.

Lotader® AX8750 is a brand new chemistry since this new terpolymer is made of ethylene, butyl acrylate and glycidyl methacrylate. Thanks to its high fluidity, it opens up new opportunities in terms of processability of the compounds. Its low temperature performance targets frozen food packaging and automotive compounds.

Lotader® AX8930 reactive terpolymer has been designed to achieve good impact resistance while maintaining fluidity. It is therefore recommended for applications where the final compounds needs to be injection molded.

Lotader® AX8930 and AX8750 terpolymers complete Arkema's range of reactive terpolymers, Lotader® AX8900, AX8820 and AX8840 resins, already used for the modification of polymers such as thermoplastic polyesters (PET/PBT), polyphenylene sulfide (PPS), as well as for bitumen modification.

	Glycidyl methacrylate content (w%)	Acrylate content (w%)	Melt Flow Index (g/10 min)	Melting point (°C)
AX8750	**4 - 6**	**24 (BA)**	**11 - 13**	**70 - 75**
AX8820	4 - 5	0	1.5 – 2.5	105 - 110
AX8840	6 - 8	0	4 - 6	104 - 108
AX8900	7 - 9	24 (MA)	4 - 8	63 - 67
AX8930	**2 - 4**	**24 (MA)**	**6 - 8**	**63 - 67**

Lotader® AX8750 and AX8930 copolymers are now available commercially globally through Arkema's local subsidiary and distribution network. They complete Arkema's impact modifiers portfolio:

- Lotader® 4700 and Lotader® 4720: general impact modification of polyamides
- Lotader® AX8840: general impact modification of PPS
- Lotader® AX8900: general impact modification of PET and PBT
- Lotryl® 35BA40: high fluidity impact modified PBT
- Lotader®/Lotryl®: impact modification of PA and PBT for injection molding
- Orevac® IM300 for high fluidity impact modification of polyamides
- Orevac® IM800 for high impact modification of polyamides at low temperature

Arkema's range of Lotader® reactive terpolymers and Lotryl® acrylate copolymers offers a wide scope of solutions for the modification of main engineering plastics, including polyamides (PA6, PA6,6 and PA12), thermoplastic polyesters (PET and PBT), bioplastics (PLA), polyphenylene sulfide (PPS) and polycarbonate (PC).

For more information on Lotader® and Lotryl® impact modification solutions, please visit the Lotryl.com and Lotader.com web pages.

A designer of materials and innovative solutions, Arkema shapes materials and creates new uses that accelerate customer performance. Our balanced business portfolio spans high-performance materials, industrial specialties and coating solutions. Our globally recognized brands are ranked among the leaders in the markets we serve. Reporting annual sales of €7.7 billion in 2015, we employ approximately 19,000 people worldwide and operate in close to 50 countries. We are committed to active engagement with all our stakeholders. Our research centers in North America, France and Asia concentrate on bio-based products, new energies, solutions for electronics, potable water management, lightweight materials and 3D design materials, building performance and insulation.
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