

Vistalon 8609 EPDM

Vistalon 8609 is an EPDM grade of high molecular weight with a high ethylene content and a high diene level. It is produced with ExxonMobil Chemical's proprietary bimodal molecular weight distribution technology.

Vistalon 8609 has been specifically designed to enhance extrusion productivity, and is the preferred Vistalon polymer for producing glass-run channels and metal-supported profiles.

Typical Properties:

- [Vistalon Grade Slate—Typical Properties](#)

Benefits of Vistalon 8609

- Consistent quality of mixed compound
- Single-pass mixing
- Improved productivity of mixing and extrusion
- High elasticity with easy processing
- Superior surface aspect

Ideal for Dense Dynamic Seals

Application	Requirement	Profile type
Glass-Run Channel	Sealing performance Surface aspect	65-80 Shore A
Auxiliary Seal	Snappiness Surface aspect	75-85 Shore A
Metal-Supported Profile	High modulus for good extraction force Adhesion to metal	65-75 Shore A
Static Body Seal	Snappiness Cost-effectiveness	65-7- Shore A

Mixing

Vistalon 8609 improves the mixing performance of compounds by optimizing three key parameters:

- The friable bale has an apparent density of 0.5 which allows it to be broken rapidly between the rotors of the mixer. This reduces filler incorporation startup work and controls batch heat build-up by reducing the early power peak generated by bale mastication.
- The rubber is semi-crystalline, so even after months of storage, it maintains a consistent bale shape which benefits the mixing process. The rubber also allows rapid incorporation of large amounts of fillers, saving mixing time.
- The tailored molecular weight distribution provides fast carbon black incorporation and dispersion, as well as an excellent degree of dispersion.

Extrusion and continuous vulcanization

The tailored molecular weight distribution of Vistalon 8609 provides low dynamic viscosity at high shear. This results in low pressure and high flow at the extruder head, for smooth extrusion. The semi-crystalline structure of Vistalon 8609 results in high collapse resistance, contributing to better control of profile shape and allowing production of complex geometries. And the diene content in Vistalon 8609 is optimized to afford high cure rate in hot-air oven processing.