

## ExxonMobil EXXELOR™ VA 1801 Maleic anhydride functionalized elastomeric ethylene copolymer

Category : Other Engineering Material , Additive/Filler for Polymer , Polymer , Thermoplastic , Elastomer, TPE , Polyethylene (PE)

### Material Notes:

**Product Description:** Exxelor VA 1801 polymer resin is a medium viscosity, semi-crystalline ethylene copolymer functionalized with maleic anhydride by reactive extrusion. Its fully saturated backbone results in outstanding thermal and oxidative stability leading to enhanced weaterability. Moreover, its elastomeric nature provides high impact resistance at room temperature and at low temperature when blended with engineering polymers such as polyamide. This grade is designed to:Modify the impact characteristics of the full range of polyamides for temperatures as low as -20°C (a function of the modifier treat level in the blend).Modify the impact characteristics of other engineering thermoplastic and technical polymers (with or without glass fibers, fillers, etc.)Achieve compatibility between polyolefins and more polar polymers that are capable of interacting with maleic anhydride.**Key Features:** Performance enhancements in polyamide:Outstanding notched Izod impact resistance at room temperature.Very high notched Izod impact resistance down to -20°CImproved flexibilityReduced moisture sensitivity and improved dimensional stability allowing the production of molded parts with different wall thicknessImproved assembly of freshly molded partsIncreased impact resistance of glass-reinforced compositions.**Availability:** Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South AmericaInformation provided by ExxonMobil Chemical

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-EXXELOR-VA-1801-Maleic-anhydride-functionalized-elastomeric-ethylene-copolymer.php](http://www.lookpolymers.com/polymer_ExxonMobil-EXXELOR-VA-1801-Maleic-anhydride-functionalized-elastomeric-ethylene-copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.870 g/cc	0.0314 lb/in <sup>3</sup>	DIN 53479
Melt Flow	9.0 g/10 min @Load 10.0 kg, Temperature 230 °C	9.0 g/10 min @Load 22.0 lb, Temperature 446 °F	ASTM D1238
Collected Volatile Condensable Material	<= 0.15 %	<= 0.15 %	AM-S 350.03

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	-42.0 °C	-43.6 °F	DSC

Optical Properties	Metric	English	Comments
Yellow Index	<= 15 %	<= 15 %	ASTM E313-96

Descriptive Properties	Value	Comments
Maleic anhydride graft level	high	

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