

## ExxonMobil Exxelor™ PE 1040 High Density Polyethylene Resin

Category : Polymer , Thermoplastic , Polyethylene (PE) , Anhydride-Modified Polyethylene

### Material Notes:

**Product Description:** Exxelor PE 1040 polymer resin is a maleic anhydride functionalized high density polyethylene, produced by reactive extrusion. It has been primarily designed to act as a coupling agent or tie layer in multilayer polyethylene compounds, or as a coupling agent or tie layer in multilayer polyethylene systems to ensure compatibility and improve adhesion of the different layers. This grade is designed to: Function as a coupling agent between reinforcing materials such as natural and mineral fillers and high density polyethylene to improve mechanical properties. Achieve compatibility and adhesion between high density polyethylene and polyamide. Function as a tie layer in multilayer tank systems with high density polyethylene and a barrier layer. **Key Features:** Performance enhancements in natural and mineral filled: Improved mechanical properties. Improved notched Izod and Charpy impact strength. Reduced water absorption. Adhesion as a tie layer in polyethylene based multilayer tank systems. **Availability:** Africa & Middle East, Europe, North America, Asia Pacific, Latin America and South America. Information provided by ExxonMobil Chemical.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-Exxelor-PE-1040-High-Density-Polyethylene-Resin.php](http://www.lookpolymers.com/polymer_ExxonMobil-Exxelor-PE-1040-High-Density-Polyethylene-Resin.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.960 g/cc	0.960 g/cc	ExxonMobil Method
Volatiles	<= 0.15 %	<= 0.15 %	AM-S 350.03
Melt Flow	1.4 g/10 min	1.4 g/10 min	ASTM D1238 and ISO 1133
	@Load 2.16 kg, Temperature 190 °C	@Load 4.76 lb, Temperature 374 °F	
	3.4 g/10 min	3.4 g/10 min	ASTM D1238 and ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Thermal Properties	Metric	English	Comments
Melting Point	134 °C	273 °F	Peak; ExxonMobil Method

Optical Properties	Metric	English	Comments
Yellow Index	<= 10 %	<= 10 %	ASTM E313

Descriptive Properties	Value	Comments
Maleic anhydride graft level	High	FTIR EPK-04 QT-02

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