

Exxelor™ PO 1015

Polymer Resin

Product Description

Exxelor PO 1015 polymer resin is a maleic anhydride functionalized polypropylene copolymer, produced by reactive extrusion. It has been primarily designed to add polarity to polypropylene matrices and in particular improve polypropylene reactivity with amino-silane treated glass reinforcements.

This grade is designed to:

- Function as a coupling agent between reinforcing materials, such as glass fibers and inorganic fillers, and polypropylene.
- Achieve compatibility in polypropylene/polyamide alloys.
- Achieve compatibility between polyolefins and more polar polymers that are capable of interacting with maleic anhydride for alloying, recycling or co-extrusion purposes.
- Improve polypropylene-to-metal adhesion properties.

Key Features

Performance enhancements in glass-filled polypropylene:

- Outstanding unnotched Izod and Charpy impact performance.
- Excellent notched Izod and Charpy impact resistance.
- Improved tensile and flexural strength.

Physical	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.900 g/cm ³	0.900 g/cm ³	ExxonMobil Method
Melt Mass-Flow Rate (MFR)			ASTM D1238
190°C/1.2 kg	22 g/10 min	22 g/10 min	
230°C/2.16 kg	150 g/10 min	150 g/10 min	
Melt Mass-Flow Rate (MFR)			ISO 1133
190°C/1.2 kg	22 g/10 min	22 g/10 min	
230°C/2.16 kg	150 g/10 min	150 g/10 min	
Maleic Anhydride Graft Level ²	Medium	Medium	FTIR EPK-04 QT-02
Volatiles	< 0.20 %	< 0.20 %	AM-S 350.03
Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Peak Melting Temperature	297 °F	147 °C	ExxonMobil Method
Optical	Typical Value (English)	Typical Value (SI)	Test Based On
Yellowness Index	< 20 YI	< 20 YI	ASTM E313

