

## ExxonMobil PP4031E2 Polypropylene Impact Copolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Impact Modified; Molded/Extruded

### Material Notes:

**Product Description:** An impact copolymer resin for extrusion applications with high melt viscosity and excellent rigidity, shock resistance and dimensional stability. It is designed for corrugated pipes, profiles, sheets and thermoforming. **Availability:** Africa & Middle East and Europe **Features:** High Impact Resistance High Stiffness High Crystalline Low Flow Nucleated **Uses:** Compounding Construction Applications Consumer Applications Corrugated Pipe Industrial Applications Tool/Tote Box **Processing Method:** Compression Molding, Profile Extrusion, Sheet Extrusion and Thermoforming **Information provided by ExxonMobil**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-PP4031E2-Polypropylene-Impact-Copolymer.php](http://www.lookpolymers.com/polymer_ExxonMobil-PP4031E2-Polypropylene-Impact-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ExxonMobil Method
Melt Flow	1.0 g/10 min	1.0 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	4.0 g/10 min	4.0 g/10 min	ISO 1133
	@Load 5.00 kg, Temperature 230 °C	@Load 11.0 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	62	62	ISO 868
Tensile Strength, Yield	28.0 MPa	4060 psi	ISO 527-2/50
Elongation at Yield	8.0 %	8.0 %	ISO 527-2/50
Tensile Modulus	1.40 GPa	203 ksi	Secant; ISO 527-2/1
Flexural Modulus	1.35 GPa	196 ksi	Secant; ISO 178
Izod Impact, Notched (ISO)	60.9 kJ/m <sup>2</sup>	29.0 ft-lb/in <sup>2</sup>	ISO 180/1A
Charpy Impact, Notched	0.504 J/cm <sup>2</sup>	2.40 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.798 J/cm <sup>2</sup>	3.80 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	7.56 J/cm <sup>2</sup>	36.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 22.8 °C	@Temperature 73.0 °F	

Thermal Properties	Metric	English	Comments
Melting Point	327 °C	621 °F	ISO 3146
Crystallization Temperature	261 °C	502 °F	ISO 3146
Deflection Temperature at 0.46 MPa (66 psi)	92.8 °C	199 °F	ISO 75-2/B
Deflection Temperature at 1.8 MPa (264 psi)	52.8 °C	127 °F	ISO 75-2/A
Vicat Softening Point	149 °C	300 °F	ISO 306/A50

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