

## ExxonMobil PP7033N Impact Copolymer

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

### Material Notes:

**Product Description:** A high crystallinity, high stiffness, high impact copolymer resin designed for injection molding applications requiring medium melt flow rate, good processing characteristics and improved cycle time. **Availability:** North America and Asia Pacific

**Features:** Balanced Stiffness/Toughness Fast Molding Cycle Medium Flow High Impact Resistance High Stiffness Nucleated **Uses:**

Appliance Automotive Applications Child Safety Seats Consumer Applications Industrial Applications Rigid Packaging **Processing Method:** Injection Molding **Automotive Specifications:** Hyundai MS213-26 Type 1 (Approval specific to USA sourced material) **Information provided by ExxonMobil Chemical**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-PP7033N-Impact-Copolymer.php](http://www.lookpolymers.com/polymer_ExxonMobil-PP7033N-Impact-Copolymer.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D792
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	25.8 MPa	3740 psi	ISO 527-2/50
	25.9 MPa	3760 psi	2 in/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	ISO 527-2/50
	5.2 %	5.2 %	2 in/min; ASTM D638
Tensile Modulus	1.32 GPa	192 ksi	ISO 527-2/1
Flexural Modulus	1.25 GPa	182 ksi	0.079 in/min; ISO 178
	1.36 GPa	197 ksi	1% secant, 0.05 in/min.; ASTM D790
	1.54 GPa	224 ksi	1% secant, 0.5 in/min; ASTM D790B
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
Izod Impact, Notched (ISO)	3.99 kJ/m <sup>2</sup> @Temperature -40.0 °C	1.90 ft-lb/in <sup>2</sup> @Temperature -40.0 °F	ISO 180/1A
	4.83 kJ/m <sup>2</sup> @Temperature -17.8 °C	2.30 ft-lb/in <sup>2</sup> @Temperature 0.000 °F	ISO 180/1A
	12.8 kJ/m <sup>2</sup>	6.10 ft-lb/in <sup>2</sup>	

Mechanical Properties	Metric @ Temperature 22.8 °C	English @ Temperature 73.0 °F	ISO 180/1A Comments
Charpy Impact, Notched	4.62 J/cm <sup>2</sup>	22.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	5.25 J/cm <sup>2</sup>	25.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	7.35 J/cm <sup>2</sup>	35.0 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	13.0 J/cm <sup>2</sup>	61.9 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	22.4 J	16.5 ft-lb	ASTM D5420
	@Thickness 3.17 mm, Temperature -30.0 °C	@Thickness 0.125 in, Temperature -22.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	91.7 °C	197 °F	ISO 75-2/A
	107 °C	225 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	52.2 °C	126 °F	ISO 75-2/Bf

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