

## ExxonMobil PP7555KNE2 Polypropylene Impact Copolymer

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

### Material Notes:

**Product Description:** A high melt flow rate medium impact copolymer resin designed for thin wall injection molding requiring fast cycle time and low odor. **Availability:** Asia Pacific **Features:** Good Mold Release High Flow High Impact Resistance High Stiffness Low to No Odor **Nucleated Uses:** Appliance Components Consumer Applications Containers Rigid Food Packaging Toys **Processing Method:** Injection Molding **Information provided by ExxonMobil**

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_ExxonMobil-PP7555KNE2-Polypropylene-Impact-Copolymer.php](http://www.lookpolymers.com/polymer_ExxonMobil-PP7555KNE2-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	50 g/10 min @Load 2.16 kg, Temperature 230 °C	50 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	24.7 MPa	3580 psi	ISO 527-2/50
	25.4 MPa	3680 psi	2.0 in/min; ASTM D638
Elongation at Yield	3.7 %	3.7 %	ISO 527-2/50
	4.6 %	4.6 %	2.0 in/min; ASTM D638
Tensile Modulus	1.37 GPa	199 ksi	ISO 527-2/1
Flexural Modulus	1.27 GPa	184 ksi	0.079 in/min; ISO 178
Flexural Modulus, 1% Secant	1340 MPa	194000 psi	0.05 in/min; ASTM D790A
	1520 MPa	221000 psi	0.5 in/min; ASTM D790B
Izod Impact, Notched	0.961 J/cm @Temperature 22.8 °C	1.80 ft-lb/in @Temperature 73.0 °F	ASTM D256A
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
	4.20 kJ/m <sup>2</sup> @Temperature -17.8 °C	2.00 ft-lb/in <sup>2</sup> @Temperature 0.000 °F	ISO 180/1A
	7.35 kJ/m <sup>2</sup> @Temperature 22.8 °C	3.50 ft-lb/in <sup>2</sup> @Temperature 73.0 °F	ISO 180/1A

Mechanical Properties	Metric	English	Comments
Charpy Impact, Notched	@Temperature -30.0 °C	@Temperature -22.0 °F	ISO 179/1eA
	0.462 J/cm <sup>2</sup>	2.20 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.546 J/cm <sup>2</sup>	2.60 ft-lb/in <sup>2</sup>	ISO 179/1eA
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	0.840 J/cm <sup>2</sup>	4.00 ft-lb/in <sup>2</sup>	ISO 179/1eA
Gardner Impact	@Temperature 22.8 °C	@Temperature 73.0 °F	
	16.6 J	12.2 ft-lb	Geometry GC; ASTM D5420
	@Thickness 3.17 mm, Temperature -28.9 °C	@Thickness 0.125 in, Temperature -20.0 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.8 °C	199 °F	ISO 75-2/Bf
	105 °C	221 °F	Unannealed; ASTM D648
	119 °C	246 °F	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	50.6 °C	123 °F	ISO 75-2/A

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