

## BP Amoco Amoco® 7644 Polypropylene Homopolymer (discontinued \*\*)

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

### Material Notes:

Suggested fabrication methods: Injection molding  
 Features: General purpose  
 Typical applications: Consumer products, Compounding  
 Complies with FDA specification, Title 21, CFR 177.1520. Typical property data below from injection molded samples. Data provided by BP Amoco Polymers, Inc. This product is no longer listed in the standard Innovene product line. The polypropylene and polyethylene products of BP Amoco have been moved to the Innovene Division in 2005.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BP-Amoco-Amoco-7644-Polypropylene-Homopolymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BP-Amoco-Amoco-7644-Polypropylene-Homopolymer-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	0.886 - 0.926 g/cc	0.0320 - 0.0335 lb/in <sup>3</sup>	ASTM D1505
Water Absorption	<= 0.010 %	<= 0.010 %	24 hours; ASTM D570
Linear Mold Shrinkage	0.010 - 0.025 cm/cm	0.010 - 0.025 in/in	ASTM D955
Melt Flow	23 g/10 min @Load 2.16 kg, Temperature 230 °C	23 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	79 - 108	79 - 108	Normal range for injection molding resins; ASTM D785
Tensile Strength, Yield	37.0 MPa	5370 psi	ASTM D638
Elongation at Break	>= 500 %	>= 500 %	ASTM D638
Elongation at Yield	9.0 %	9.0 %	ASTM D638
Flexural Modulus	1.48 GPa	215 ksi	ASTM D790A
Izod Impact, Notched	0.200 - 0.300 J/cm @Diameter 3.17 mm	0.375 - 0.562 ft-lb/in @Diameter 0.125 in	bar

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	65.0 °C	149 °F	UL Relative Thermal Index
Deflection Temperature at 0.46 MPa (66 psi)	103 °C	217 °F	ASTM D648
Flammability, UL94	HB	HB	

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