

## BP Amoco Amoco® 7942 Polypropylene Homopolymer (discontinued \*\*)

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

### Material Notes:

Suggested fabrication methods: Injection molding  
 Features: Excellent mold release, Antistatic  
 Typical applications: Closures, Thin-walled rigid packaging  
 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-7942-Polypropylene-Homopolymer-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_BP-Amoco-Amoco-7942-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	35 g/10 min @Load 2.16 kg, Temperature 230 °C	35 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	34.0 MPa	4930 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Elongation at Yield	10 %	10 %	ASTM D638
Flexural Modulus	1.38 GPa	200 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; ASTM D256

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)	99.0 °C	210 °F	ASTM D648
Flammability, UL94	HB	HB	

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