

## Formosa Plastics Formolene® 4181T Injection Molding Polypropylene

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

**Material Notes:**

Homopolymer with Antistat, ESCR Additives  
**Applications:** For general purpose injection molding applications such as closures. Formolene 4181T is a low viscosity, highly isotactic polypropylene homopolymer designed for various injection molded applications such as closures. It contains a unique combination of stabilizers which give it excellent processability with good stiffness, environmental stress crack resistance, heat performance and minimal odor and taste. Formolene 4181T contains antistat but no nucleation. Meets all requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles intended for direct food contact. Specimens were injection molded according to the conditions specified in ASTM D4101. Information provided by Formosa Plastics Corporation, USA.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Formosa-Plastics-Formolene-4181T-Injection-Molding-Polypropylene.php](http://www.lookpolymers.com/polymer_Formosa-Plastics-Formolene-4181T-Injection-Molding-Polypropylene.php)

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in <sup>3</sup>	ASTM D1505
Melt Flow	30 g/10 min @Temperature 230 °C	30 g/10 min @Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	34.5 MPa	5000 psi	2" (50mm) per min.; ASTM D638
Elongation at Yield	9.0 %	9.0 %	2" (50mm) per min.; ASTM D638
Flexural Modulus	1.24 GPa	180 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.214 J/cm	0.400 ft-lb/in	ASTM D256

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