

Formosa Plastics Formolene® 5143S Homopolymer Polypropylene

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

Material Notes:

Homopolymer for Extrusion Sheet and Thermoforming Applications Formolene® 5143S is a higher melt flow homopolymer designed for light weighting of components. Its very high stiffness enables reduction of side walls and component weights without loss of top loading strength. It permits faster cycle times both in the extrusion and forming phases which can result in better process efficiencies. It is an excellent choice for 'see-through' house wares and rigid packaging. Formolene® 5143S has been formulated without components containing animal derivatives. Formolene® 5143S meets all requirements of the U. S. Food and Drug Administration as specified in 21 CFR 177.1520, covering safe use of polyolefin articles and components of 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-5143S-Homopolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	3.0 g/10 min @Temperature 230 °C	3.0 g/10 min @Temperature 446 °F	I ₂ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	4.00 MPa	580 psi	2" (50mm) per min; ASTM D638
Elongation at Yield	7.0 %	7.0 %	2" (50mm) per min; ASTM D638
Flexural Modulus	1.93 GPa	280 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.267 J/cm @Temperature 23.0 °C	0.500 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	ASTM D648

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