

Formosa Plastics Formolene® 5102KR Cast Film Polypropylene

Category : Polymer , Film , Thermoplastic , Polypropylene (PP) , Polypropylene, Film Grade

Material Notes:

Homopolymer Applications: Biaxially oriented film. Formolene 5102KR is a highly isotactic polypropylene homopolymer designed primarily for cast film applications such as slit tape fabric stock and cordage. It contains a unique combination of stabilizers which give it low water carry over as well as excellent melt stability. 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-5102KR-Cast-Film-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	4.0 g/10 min @Temperature 230 °C	4.0 g/10 min @Temperature 446 °F	I ₂ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	105	105	ASTM D785
Tensile Strength, Yield	33.1 MPa	4800 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	0.427 J/cm	0.800 ft-lb/in	ASTM D256

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