

Formosa Plastics Formolene® 5142K Extrusion - Sheet - Thermoforming Polypropylene

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

Material Notes:

Homopolymer Applications: Extrusion, Sheet and Thermoforming Applications Formolene 5142K is a high viscosity homopolymer designed primarily for thermoformed cups and container applications. It contains a unique combination of stabilizers, nucleators and anti-stats that give it an excellent balance of stiffness and impact strength and high clarity. Formolene 5142K offers an advantage in processing over current polypropylenes used for thermoforming, which includes a broader forming window and fast set up time. 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-5142K-Extrusion-Sheet-Thermoforming-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.905 g/cc	0.0327 lb/in ³	ASTM D1505
Melt Flow	2.0 g/10 min @Temperature 230 °C	2.0 g/10 min @Temperature 446 °F	l ₂ ; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength, Yield	37.9 MPa	5500 psi	2" (50mm) per min.; ASTM D638
Elongation at Yield	9.0 %	9.0 %	2" (50mm) per min.; ASTM D638
Flexural Modulus	1.65 GPa	240 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	116 °C	241 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	23 % @Thickness 1.00 mm	23 % @Thickness 0.0394 in	Injection Molded Plaque; ASTM D1003

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