

Formosa Plastics Formolene® 3435E Random Copolymer Polypropylene

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

Material Notes:

Random Copolymer for Clear Storage Boxes, Pill Vials and Containers Formolene® 3435E is a high melt flow random copolymer with fast cycle time and easy mold release. It is designed for injection molding including thin wall applications requiring a higher level of impact resistance. Its clarity and low yellow index makes it an excellent choice for 'see-through' house wares and rigid packaging. Formolene® 3435E 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-3435E-Random-Copolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Melt Flow	35 g/10 min @Temperature 230 °C	35 g/10 min @Temperature 446 °F	I₂; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Yield	25.5 MPa	3700 psi	2" (50mm) per min; ASTM D638
Elongation at Yield	16 %	16 %	2" (50mm) per min; ASTM D638
Flexural Modulus	0.862 GPa	125 ksi	1.3mm per min, 1% secant; ASTM D790
Izod Impact, Notched	0.854 J/cm @Temperature 23.0 °C	1.60 ft-lb/in @Temperature 73.4 °F	ASTM D256
Gardner Impact	25.4 J	18.7 ft-lb	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	ASTM D648

Optical Properties	Metric	English	Comments
Haze	10 %	10 %	Plaque; FTTC 5606

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