



Formosa Plastics®

Formolene® 6300C

Impact Copolymer for Pipe Extrusion Applications

Formolene® 6300C is a fractional melt flow high impact copolymer designed for non-pressure pipe but can also be used for high melt strength extrusion applications requiring an excellent balance of toughness and stiffness. It is designed to be suitable for corrugated pipe application and meets ASTM F2881 and AASHTO M330 requirements.

Formolene® 6300C meets the 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. For additional information on approved conditions of use for food contact applications, please refer to the “Products” section on our website (<http://www.fpcusa.com/ourproducts.html>).

This material is free of animal-derived content.

Typical Properties of this Commercial Grade

Property	Test Method	Typical Values	
		English	SI
Melt Flow Rate, I ₂ @ 230°C	ASTM D1238	0.3 g/10 min	0.3 g/10 min
Density	ASTM D1505	0.9 g/cm ³	0.9 g/cm ³
Tensile Strength at Yield (50 mm/min)	ASTM D638	4,800 psi	33 MPa
Elongation at Yield (50 mm/min)	ASTM D638	8 %	8 %
Flexural Modulus (1.3 mm/min), 1% Sec.	ASTM D790	230 kpsi	1590 MPa
Notched Izod Impact Strength @ 73° F	ASTM D256A	No break	No break
Notched Izod Impact Strength @ -4° F	ASTM D256A	1 ft-lb/in	55 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	240 °F	115 °C
Heat Deflection Temperature @ 264 psi	ASTM D648	136 °F	58 °C
Tensile Creep Modulus	ASTM D6992	>40 kpsi	>275 MPa

Specimens were injection molded according to the conditions specified in ASTM D4101. Data for representative purposes only; not to be construed as product specification. Published 05/23. Updated 03/24

Any inquiries regarding this data sheet should be addressed to: 9 Peach Tree Hill Road • Livingston, NJ 07039 • Phone: (888) FPCUSA3 • Fax: (973) 422-7772

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