

TechResin® 5555E

Random Copolymer for Clear Storage Containers and Food and Beverage Containers

TechResin® 5555E is a high melt flow random copolymer with fast cycle time and good mold and denesting release. It is designed for injection molding including thin wall applications.

The use of an advanced clarifier with low yellowness index and haze – makes it an excellent choice for ‘see-through’ housewares and rigid packaging. Use of this clarifier allows processors to run at lower temperatures - resulting in the potential for cycle time reductions and energy savings.

TechResin® 5555E 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.

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	55 g/10min	55 g/10min
Density	ASTM D1505	0.9 g/cm ³	0.9 g/cm ³
Tensile Strength at Yield (50 mm/min)	ASTM D638	4,200 psi	29 MPa
Elongation at Yield (50 mm/min)	ASTM D638	15 %	15 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	150,000 psi	1035 MPa
Notched Izod Impact Strength @ 73°F	ASTM D256A	1.0 ft-lb/in	53 J/m
Gardner Impact @73°F	ASTM D5420	180 in-lb	20 J
Heat Deflection Temperature @ 66psi	ASTM D648	178 °F	120 °C
Plaque haze (1 mm), %	MDT Method	10 %	10 %

Note: 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 01/13, Revised 4/13