

TechResin[®] 5681M

Homopolymer for Staple Fiber

TechResin[®] 5681M is a homopolymer polypropylene designed for staple fiber applications. It contains a unique combination of stabilizers and additives, which provides excellent processability and good end use performance. It possesses mild resistance to UV.

TechResin[®] 5681M 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	8.0 g/10 min	8.0 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	5,400 psi	37 MPa
Elongation at Yield (50 mm/min)	ASTM D638	7 %	7 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	215,000 psi	1483 MPa
Rockwell Hardness	ASTM D785	110 R Scale	110 R Scale
Notched Izod Impact Strength @ 73°F	ASTM D256A	0.5 ft-lb/in	27 J/m

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 2/01, Revised 5/13

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