TechResin® 3520

General Information

Product Description

- TechResin® 3520 is a medium impact copolymer polypropylene designed for such applications as dairy packaging, deli containers, and stadium cups.
- TechResin® 3520 meets requirements of the Food and Drug Administration, 21 CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food." Specific limitations may apply.

General			
Material Status	• Commercial: Active		
Availability	• North America		
Features	• Food Contact Acceptable	• Impact Copolymer	• Medium Impact Resistance
Uses	• Containers	• Cups	• Packaging
Agency Ratings	• FDA 21 CFR 177.1520		

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm³	ASTM D1505
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	35	g/10 min	ASTM D1238
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [2] (Yield)	3700	psi	ASTM D638
Flexural Modulus - 1% Secant [3]	145000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
32°F	1.5	ft·lb/in	
73°F	2.0	ft·lb/in	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	106		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	190	°F	ASTM D648

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 2.0 in/min

[3] 0.051 in/min

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