

TechResin[®] 5751A

Impact Copolymer for Thin Walled Injection Molded Applications

TechResin[®] 5751A is a medium impact, high flow copolymer polypropylene designed for such applications as housewares, containers and other rigid packaging. It is characterized by its easy mold flow, excellent physical property balance and finished product dimensional stability.

TechResin[®] 5751A 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 | 50 g/10 min | 50 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 | 3,000 psi | 21 MPa |
| Elongation at Yield (50 mm/min) | ASTM D638 | 5 % | 5 % |
| Flexural Modulus (1.3 mm/min), 1% Secant | ASTM D790 | 145,000 psi | 1000 MPa |
| Notched Izod Impact Strength @ 73°F | ASTM D256A | 1.7 ft-lb/in | 91 J/m |
| Heat Deflection Temperature @ 66 psi | ASTM D648 | 199 °F | 93 °C |
| Rockwell Hardness | ASTM D785 | 89 R Scale | 89 R Scale |

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.

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