

## TechResin<sup>®</sup> 5536E

### ***Random Copolymer for Clear Storage Containers and Food and Beverage Containers***

TechResin<sup>®</sup> 5536E is a high melt flow, random copolymer polypropylene with fast cycle time and easy mold release. It is designed for injection molding including thin wall applications requiring a higher level of impact resistance. Its clarity and low yellow index makes it an excellent choice for ‘see-through’ house wares and rigid packaging.

TechResin<sup>®</sup> 5536E 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 <sub>2</sub> @ 230°C   | ASTM D1238  | 35 g/10 min           | 35 g/10 min           |
| Density                                  | ASTM D1505  | 0.9 g/cm <sup>3</sup> | 0.9 g/cm <sup>3</sup> |
| Tensile Strength at Yield (50 mm/min)    | ASTM D638   | 3,700 psi             | 25.5 MPa              |
| Elongation at Yield (50 mm/min)          | ASTM D638   | 16 %                  | 16 %                  |
| Flexural Modulus (1.3 mm/min), 1% Secant | ASTM D790   | 125,000 psi           | 862 MPa               |
| Rockwell Hardness                        | ASTM D785   | 100 R Scale           | 100 R Scale           |
| Gardner Impact @ 73°F                    | ASTM D5420  | 225 in-lb             | 25 J                  |
| Notched Izod Impact Strength @ 73°F      | ASTM D256A  | 1.6 ft-lb/in          | 85 J/m                |
| Heat Deflection Temperature @ 66 psi     | ASTM D648   | 162 °F                | 71 °C                 |
| Plaque Haze, %                           | MDT method  | 10 %                  | 10 %                  |

*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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