

## TechResin<sup>®</sup> 5705A

### **Impact Copolymer for Extrusion and Compounding Applications**

TechResin<sup>®</sup> 5705A is a fractional melt flow, high impact copolymer polypropylene with an excellent balance of toughness and stiffness. It is suitable for compounding programs as well as blow-molded bottles and components, heavy gauge sheet for thermoformed containers and components and profile extrusions.

TechResin<sup>®</sup> 5705A 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	0.5 g/10 min	0.5 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	3,650 psi	25 MPa
Elongation at Yield (50 mm/min)	ASTM D638	10 %	10 %
Flexural Modulus (1.3 mm/min), 1% Secant	ASTM D790	155,000 psi	1069 MPa
Notched Izod Impact Strength @ 73°F	ASTM D256A	No Break ft-lb/in	No Break J/m
Notched Izod Impact Strength @ 32°F	ASTM D256A	2.5 ft-lb/in	133 J/m
Notched Izod Impact Strength @ 0°F	ASTM D256A	2.1 ft-lb/in	112 J/m
Notched Izod Impact Strength @ -22°F	ASTM D256A	1.6 ft-lb/in	85 J/m
Heat Deflection Temperature @ 66 psi	ASTM D648	187 °F	86 °C

*Notes: 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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