

## TechResin® 3506

### Product Description

TechResin® 3506 polypropylene homopolymer is available in pellet form. This resin is typically used in injection molding applications.

<b>Application</b>	Caps & Closures; Labware; Opaque Containers
<b>Market Processing</b>	Consumer Products; Rigid Packaging Extrusion
<b>Method Attribute</b>	Coating; Injection Molding Good Dimensional Stability; Good Processability

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	35	g/10 min	ASTM D1238
Density, (23 °C)	0.90	g/cm <sup>3</sup>	0.90	g/cm <sup>3</sup>	ASTM D792
<b>Mechanical</b>					
Flexural Modulus					
(0.05 in/min, 1% Secant, Procedure A)	170000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1170	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4500	psi			ASTM D638
(50 mm/min)			31	MPa	ASTM D638
Tensile Elongation at Yield	12	%	12	%	ASTM D638
<b>Impact</b>					
Notched Izod Impact Strength					
(73 °F, Method A)	0.6	ft-lb/in			ASTM D256
(23 °C, Method A)			32	J/m	ASTM D256
<b>Thermal</b>					
Deflection Temperature Under Load					
(66 psi, Unannealed)	190	°F			ASTM D648
(0.45 MPa, Unannealed)			88	°C	ASTM D648

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