

## Technical Data Sheet

### *Pro-fax* 6301



Polypropylene, Homopolymer

#### Product Description

*Pro-fax* 6301 polypropylene homopolymer is available in spherical particle form. This resin is typically used for mixing with pigments and other additives to make polymer concentrates or masterbatches.

*Pro-fax* 6301 has very minimal stabilization, which allows wide design latitude for compounders. Additional stabilization is required to protect the resin during melt processing and throughout its useful life.

Please note that any additives compounded into this resin will require a re-assessment of its FDA status.

<b>Application</b>	Colour Concentrates; Polymer Modifier; Wood Composites
<b>Market</b>	Compounding
<b>Processing Method</b>	Compounding
<b>Attribute</b>	Dispersible; Good Stiffness; High Filler Loading Capability

Typical Properties	Nominal Value	English Units	Nominal Value	SI Units	Test Method
<b>Physical</b>					
Melt Flow Rate, (230 °C/2.16 kg)	12	g/10 min	12	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)	210000	psi			ASTM D790
(1.3 mm/min, 1% Secant, Procedure A)			1450	MPa	ASTM D790
Tensile Strength at Yield					
(2 in/min)	4900	psi			ASTM D638
(50 mm/min)			34	MPa	ASTM D638
Tensile Elongation at Yield	11	%	11	%	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)	200	°F			ASTM D648
(0.45 MPa, Unannealed)			93	°C	ASTM D648