



TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

## Polypropylene 3480Z

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

### Description

**Polypropylene 3480Z** is formulated specifically to give excellent process stability in high profile extrusion.

**High Purity:** Low catalyst residues in 3480Z provide outstanding color, plus low taste and odor.

**Antistat:** 3480Z is formulated to minimize surface static build-up.

**FDA:** 3480Z complies with all applicable FDA regulations for food contact applications.

**Applications:** 3480Z is recommended for high speed profile extrusion for standard and flexible drinking straws.

**Processing:** 3480Z processes on conventional extrusion equipment with typical melt temperatures of 390°F-450°F (200°C-232°C).

### Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	4.8
<b>Mechanical Properties</b>			
Tensile	D-638	psi (MPa)	5,300 (35)
Elongation at yield	D-638	%	10
Elongation at break	D-638	%	>100
Tensile Modulus			
Flexural Modulus	D-790	psi (MPa)	200,000 (1,380)
Izod Impact @ 73°F			
Notched	D-256A	ft.-lbs/in. (J/m)	0.5 (27)
Unnotched			24.0 (1,281)
Hardness			
Shore D	D-1706		77
Rockwell R			90
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	225
		°C @ 4.64 kg/cm <sup>2</sup>	107
Coefficient of Linear Thermal Expansion	D-696	in./in./°F x 10 <sup>-5</sup>	5.6
		cm/cm/°C x 10 <sup>-5</sup>	10
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.905

Polypropylene

- (1) Data developed under laboratory conditions and are not to be used as specification, maxima or minima.  
(2) MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

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