



**TotalEnergies**

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

(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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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.

Polypropylene