

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

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

Antistat. TOTAL Polypropylene 3480Z is formulated to minimize surface static build-up.

FDA. TOTAL Polypropylene 3480Z complies with all applicable FDA regulations for food contact applications.

Recommended Applications. TOTAL Polypropylene 3480Z is recommended for high speed profile extrusion for standard and flexible drinking straws.

Processing. TOTAL Polypropylene 3480Z processes on conventional extrusion equipment with typical melt temperatures of 390-450°F (200-232°C). Call the nearest TOTAL Polypropylene Sales Office for additional information.

<u>Resin Properties⁽¹⁾</u>	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow, g/10 min.	4.8	D-1238 Condition "L"
Density, g/cc	0.905	D-1505
Melting Point, °F (°C)	330 (165)	DSC ⁽²⁾
<u>Mechanical Properties⁽¹⁾</u>		
Tensile, psi (M Pa)	5,300 (35.6)	D-638
Elongation at yield, %	10	D-638
Elongation at break, %	>100	D-638
Tensile Modulus, psi (M Pa)	220,000 (1,515)	D-638
Flexural Modulus, psi (M Pa)	200,000 (1,380)	D-790
Izod Impact @ 73°F		D-256A
Notched - ft.-lbs./in. (J/m)	0.5 (26.5)	
Unnotched - ft.-lbs./in. (J/m)	24.0 (1,270)	
Hardness		
Shore D	77	D-1706
Rockwell R	90	D-785A
<u>Thermal Properties⁽¹⁾</u>		
Heat Deflection		D-648
°F at 66 psi	225	
°C at 4.64 kg/cm ²	107	
Coefficient of Linear Thermal Expansion		D-696
in./in./°F x 10 ⁻⁵	5.6	
cm/cm/°C x 10 ⁻⁵	10	

(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.

3480Z 10/05

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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 TOTAL products must be guided by the users own methods for selection of proper formulation. TOTAL PETROCHEMICALS USA, INC. disclaims any responsibility for misuse or misapplication of its products. TOTAL MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TOTAL'S 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.