

Balanced Properties. TOTAL Polypropylene 3727W strikes an optimum balance between excellent mechanical properties (tensile, flex and impact) and processability making it a superior molding grade for cap and closure applications.

Impact Strength. TOTAL Polypropylene 3727W offers improved impact strength.

Nucleation. TOTAL Polypropylene 3727W is formulated to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

Regulatory. TOTAL Polypropylene 3727W has passed USP Class VI testing, and all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). TOTAL Polypropylene 3727W complies with all applicable FDA regulations for food contact applications.

Recommended Application. TOTAL Polypropylene 3727W is recommended for large thin wall parts, caps and closures.

Processing. TOTAL Polypropylene 3727W resin processes on conventional injection molding 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</u> ⁽¹⁾	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow, g/10 min.	20	D-1238 Condition "L"
Density, g/cc	0.905	D-1505
Melt Point, °F (°C)	316 (158)	DSC ⁽²⁾
 <u>Mechanical Properties</u>⁽¹⁾		
Tensile Strength, psi (MPa)	4,800 (33)	D-638
Elongation at Yield, %	8	
Tensile Modulus, psi (MPa)	180,000 (1,240)	D-638
Flexural Modulus, psi (MPa)	190,000 (1,310)	D-790
Izod Impact, Notched @ 73°F, ft.lbs./in. (J/m)	1.0 (53)	D-256A
Drop Impact, 0.125" Plaques in.lbs. (J)	160 (18)	API ⁽³⁾
 <u>Thermal Properties</u>⁽¹⁾		
Heat Deflection Temperature °F @ 66 psi	220	D-648
°C @ 4.64 kg/cm ²	105	

(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.
 (3) Test procedure available upon request.

3727W 10/04

Corporate Office USA
 P.O. Box 674411
 Houston, TX 77267-4411
 800.344.3462
 www.totalpetrochemicalsusa.com

Technical Center
 P.O. Box 1200
 Deer Park, TX 77536
 281.884.7500

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.