

**Nucleation.** Total Petrochemicals Polypropylene 3824WZ is engineered with nucleation to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

**Antistat.** 3824WZ contains an antistat that will help protect molded parts from dust accumulation.

**FDA.** 3824WZ complies with all applicable FDA regulations for food contact applications.

**Recommended Applications.** 3824WZ is recommended for large thin wall parts, caps, and closures.

**Processing.** 3824WZ resin processes on conventional injection molding equipment with typical melt temperatures of 390-450°F (200-232°C). Call the nearest Total Petrochemicals Polypropylene Sales Office for additional information.

<u>Resin Properties</u> <sup>(1)</sup>	<u>Typical Value</u>	<u>ASTM Method</u>
Melt Flow, g/10 min.	36	D-1238 Condition "L"
Density, g/cc	0.905	D-1505
Melting Point, °F (°C)	330 (165)	DSC <sup>(2)</sup>
<u>Mechanical Properties</u> <sup>(1)</sup>		
Tensile, psi (M Pa)	5,400 (37.2)	D-638
Elongation, %	12	D-638
Tensile Modulus, psi (M Pa)	225,000 (1,550)	D-638
Flexural Modulus, psi (M Pa)	225,000 (1,550)	D-790
Izod Impact @ 73°F		D-256A
Notched - ft.-lb./in. (J/m)	0.5 (26.7)	
Unnotched - ft.-lb./in. (J/m)	20.0 (1,065)	
Hardness		
Rockwell R	105	D-785A
<u>Thermal Properties</u> <sup>(1)</sup>		
Heat Deflection		D-648
°F at 66 psi	260	
°C at 4.64 kg/cm <sup>2</sup>	127	

(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 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 miss application 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.