

Easy Flow. Total Petrochemicals Polypropylene 3740WR exhibits exceptionally easy flow characteristics.

FDA. 3740WR complies with all applicable FDA and USDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications. 3740WR is recommended for injection molding medical applications requiring high stiffness and good gamma radiation stability up to 50 kGy.

Processing. 3740WR resin processes on conventional injection molding equipment with typical melt temperatures of 350-450°F (177-232°C). Call the nearest Total Petrochemicals 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	0.900	D-1505
Melting Point, °F (°C)	329 (165)	DSC ⁽²⁾
 <u>Mechanical Properties</u>⁽¹⁾		
Flexural Modulus, psi (M Pa)	250,000 (1725)	D-790
Tensile Strength at Yield, psi (M Pa)	5400 (37)	D-638
Tensile Modulus, psi (M Pa)	240,000 (1655)	D-638
Elongation at Yield, %	7	D-638
Izod Impact @ 73°F	D-256A	
Notched - ft.lb./in. (J/m)	0.3 (16)	
Drop Impact, 0.125" plaques, in-lb (J)	5 (0.57)	API ⁽³⁾
Hardness		
Shore D	75	D-1706
 <u>Thermal Properties</u>⁽¹⁾		
Heat Deflection		D-648
°F @ 66 psi	240	
°C @ 4.64 kGy/cm ²	116	

Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
MP determined with a DSC-2 Differential Scanning Calorimeter.
Test procedure available upon request.
See ASR 2004-0987 & 2004-1149

3740WR 6/05

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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 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.