

Clarity. TOTAL 7847MR exhibits superior clarity and produces molded parts with improved impact.

Easy Flow. TOTAL 7847MR exhibits exceptionally easy flow characteristics.

FDA. TOTAL 7847MR complies with all applicable FDA and USDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications. TOTAL 7847MR is recommended for injection molding medical applications requiring good impact and good gamma radiation stability to 50 kGy and other items calling for good impact and superior clarity.

Processing. TOTAL 7847MR resin processes on conventional injection molding equipment with typical melt temperatures of 350-450°F (177-232°C). Call the nearest TOTAL Sales Office for additional information.

| <u>Resin Properties</u> ⁽¹⁾ | <u>Typical Value</u> | <u>ASTM Method</u> |
|---|-----------------------|----------------------|
| Melt Flow, g/10 min. | 30 | D-1238 Condition "L" |
| Density, g/cc | 0.900 | D-1505 |
| Melting Point, °F (°C) | 298 (148) | DSC ⁽²⁾ |
| <u>Mechanical Properties</u>⁽¹⁾ | | |
| Tensile, psi (M Pa) | 3,300 (22.8) | D-638 |
| Elongation, % | 12 | D-638 |
| Tensile Modulus, psi (M Pa) | 135,000 (930) | D-638 |
| Flexural Modulus, psi (M Pa) | 120,000 (830) | D-790 |
| Izod Impact @ 73°F | D-256A | |
| Notched - ft.lb./in. (J/m) | 1.5 (80.0) | |
| Unnotched - ft.lb./in. (J/m) | No Breaks (No Breaks) | |
| Drop Impact, 0.125" plaques, in-lb (J) | 165 (18.6) | API ⁽³⁾ |
| Hardness | | |
| Shore D | 66 | D-1706 |
| <u>Thermal Properties</u>⁽¹⁾ | | |
| Heat Deflection | | D-648 |
| °F @ 66 psi | 165 | |
| °C @ 4.64 kg/cm ² | 74 | |

(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.

(4) ASR 2004-0101

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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.