

TOTAL 4824WZ polypropylene is a nucleated impact copolymer with a Melt Flow of 40 g/10min.

TOTAL 4824WZ is characterized by improved stiffness and impact resistance, as well as low shrinkage and low warpage. It has been formulated for excellent antistatic properties.

TOTAL 4824WZ has been developed for high speed injection molding of thin-walled packaging containers and household articles.

| <u>Resin Properties</u> | <u>Typical Value</u> | <u>Test Method</u> |
|---|----------------------|--------------------|
| Melt Flow, g/10 min. | 40 | ASTM D-1238 |
| Density, g/cm ³ | 0.905 | ASTM D-1505 |
| Melting Range, °C | 160 - 165 | TOTAL Method |
| <u>Mechanical Properties</u> | | |
| Tensile Strength at Yield, psi (M Pa) | 3700 (25) | ASTM D-638 |
| Elongation at Yield, % | 6 | ASTM D-638 |
| Flexural Modulus, psi (M Pa) | 170,000 (1,170) | ASTM D-790 |
| Izod Impact (Notched) | | |
| @ 23°C, ft-lb/in (J/m) | 1.9 (100) | ASTM D-256 |
| @ -20°C, ft-lb/in (J/m) | 0.9 (44) | ASTM D-256 |
| Charpy Impact Strength | | |
| @ 23°C, kJ/m ² | 8 | DIN 53453 |
| @ -20°C, kJ/m ² | 5 | DIN 53453 |
| <u>Thermal Properties</u> | | |
| Vicat Softening Point, °C | 148 | ASTM D-1525 |
| Heat Deflection Temperature, °C | 95 | ASTM D-648 |

4824WZ 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 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.