

POLYPROPYLENE 4944WZ

Impact Copolymer

Total Petrochemicals Polypropylene 4944WZ polypropylene is a nucleated and controlled rheology impact copolymer with a very high Melt Flow of 50 g/10min.

4944WZ is characterized by improved stiffness and impact resistance, as well as low shrinkage and low warpage. It has been formulated for high speed printing with good antistatic properties.

4944WZ has been developed for high speed injection molding of thin-walled packaging containers and household articles.

Resin Properties

Melt Flow, g/10 min.
Density, g/cm³
Melting Range, °C

Typical Value

50
0.905
160 - 165

Test Methods

ASTM D-1238
ASTM D-1505
Total Petrochemicals Method

Mechanical Properties

Tensile Strength at Yield, psi (M Pa)
Elongation at Yield, %
Flexural Modulus, psi (M Pa)
Izod Impact (Notched)
@ 23°C, ft-lb/in (J/m)

3650 (25)
5
195,000 (1,350)
1.4 (75)

ASTM D-638
ASTM D-638
ASTM D-790
ASTM D-256

Thermal Properties

Vicat Softening Point, °C
Heat Deflection Temperature, °C

150
90

ASTM D-1525
ASTM D-648

4944WZ 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.

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