

**Lubricated.** TOTAL Petrochemicals Polypropylene 3230XZ offers superior core rod release.

**Antistat.** 3230XZ offers antistat to aid in core rod release and filling.

**High Purity.** 3230XZ features minimum taste and odor, and optimum thermal stability for superior color and processability.

**FDA.** 3230XZ complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

**Recommended Applications.** 3230XZ is ideal for food, cosmetic and pharmaceutical injection blow molded containers.

**Processing.** 3230XZ resin processes on conventional blow molding equipment with typical melt temperatures of 380-480°F (199-232°C). Call the nearest TOTAL Petrochemicals Polypropylene Sales Office for additional information.

**Resin Properties**

Melt Flow, g/10 min.

**Typical Values**

1.8

**ASTM Methods**

D-1238 Condition "L"

Density, g/cc

0.905

D-1505

Melting Point, °F (°C)

330 (165)

DSC(2)

**Mechanical Properties**

Tensile, psi (MPa)

4,800 (33.1)

D-638

Elongation, %

8

D-638

Tensile Modulus, psi (MPa)

200,000 (1,380)

D-638

Flexural Modulus, psi (MPa)

170,000 (1,170)

D-790

Izod Impact @ 73°F

D-256A

Notched – ft. lbs. (J/m)

0.7 (37.4)

**Thermal Properties**

Heat Deflection

D-648

°F at 66 psi

250

°C at 4.64 kg/cm<sup>2</sup>

121

**Barrier Properties<sup>(1)</sup>**

Moisture Vapor Transmission

0.45

E-96

@ 100°F (38°C), 90% R.H.  
gms/mil/100 in.<sup>2</sup>/24 hrs.

Oxygen Transmission, @ 73°F

240

D-1434

(23°C) cc/100 in<sup>2</sup> mil/24 hrs./atm.

(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.