TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

# Polypropylene 7232

Technical Data Sheet
Polypropylene – Random Copolymer
Produced in the United States

## Description

**Polypropylene 7232** offers excellent impact strength, clarity and gloss. The outstanding parison strength of 7232 allows for large container sizes and higher blow up ratios.

**High Purity:** 7232 features minimum taste and odor and optimum thermal stability for superior color and processability.

**FDA:** 7232 complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

**Recommended Applications:** 7232 is ideal for both injection and extrusion blow molded containers for food, drug, cosmetic and toiletry applications requiring superior impact, strength and clarity.

**Processing:** 7232 resin processes on conventional blow molding equipment with typical melt temperatures of 390˚F-450˚F (177˚C-232˚C).

## Characteristics

| | Method | Unit | Typical Value |
|---|---|---|---|
| **Rheological Properties** | | | |
| Melt Flow | D-1238 Condition "L" | g/10 min | 1.5 |
| **Mechanical Properties** | | | |
| Tensile Strength @ Yield | D-638 | psi (MPa) | 3,400 (23) |
| Tensile Strength @ Yield | D-638 | % | 11 |
| Tensile Modulus | D-638 | psi (MPa) | 120,000 (827) |
| Flexural Modulus | D-790 | psi (MPa) | 100,000 (689) |
| Izod Impact Notched @ 73˚F | D-256A | ft-lb/in (J/m) | 1.4 (75) |
| Mold Shrinkage | D-955 | in./in. | 0.010-0.025 |
| **Thermal Properties(1)** | | | |
| Melting Point | DSC (2) | ˚F (˚C) | 289 (143) |
| Heat Deflection<br>@ 66 Psi<br>@ 4.64 kg/cm$^2$ | D-648 | <br>˚F<br>˚C | <br>180<br>82 |
| **Barrier Properties(1)** | | | |
| Moisture Vapor Transmission @ 100˚F | E-96 | 90% R.H.gms/mil/100 in.$^2$ mil/24 hrs. | 0.6 |
| Oxygen Transmission @ 73˚F | D-1434 | cc/100 in2.mil/24 hrs./atm | 240 |
| **Other Physical Properties** | | | |
| Density | D-1505 | g/cc | 0.900 |

(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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