


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	D-638	psi (MPa)	3,400 (23)
Elongation	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),(2)}			
Melting Point	DSC	°F (°C)	289 (143)
Heat Deflection @ 66 Psi @ 4.64 kg/cm ²	D-648	°F °C	180 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 in ² .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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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 TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' 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.