TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 6232

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

Description

Polypropylene 6232 offers good impact strength, clarity, and gloss.

Chemical Inertness: 6232 has been formulated specifically for medical applications requiring low level extractables and low odor.

High Purity: 6232 provides optimum thermal stability for superior color and processability.

FDA: 6232 complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications: 6232 is ideal for extrusion blow molding for medical, food and other containers requiring low extractables.

Processing: 6232 resin processes on conventional blow molding equipment with typical melt temperatures of 390°F-450°F (199°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	2
Mechanical Properties			
Tensile	D-638	psi (MPa)	3,800 (26)
Elongation	D-638	%	14
Tensile Modulus	D-638	psi (MPa)	140,000 (965)
Flexural Modulus	D-790	psi (MPa)	150,000 (1,035)
Izod Impact Notched @ 73°F	ASTM D-256A	ft.-lbs/in. (J/m)	1.2 (64)
Mold Shrinkage	D-955	in./in.	0.010-0.025
Thermal Properties(1)			
Melting Point	DSC(2)	°F (°C)	297 (147)
Other Physical Properties			
Density	D-1505	g/cc	0.900
WVTR @ 100°F, 90% RH	F-1249	g/mil/100 $in.^2$/24 hrs	0.6
Oxygen Transmission @ 73°F	D-1434	cc/100 in^2 mil/24 hrs./atm.	240

(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.

Rev: Sept 2021

TOTALENERGIES PETROCHEMICALS & REFINING USA, INC.
POLYMERS AMERICAS
1201 Louisiana Street
Suite 1800
Houston, TX 77002
www.polymers.totalenergies.com

TECHNICAL CENTER
P.O. Box 1200
Deer Park, Texas 77536
Phone: 281-884-7500

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.

Polypropylene