TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 7235

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

Description

Polypropylene 7235 offers excellent impact strength, clarity and gloss. The outstanding parison strength of 7235 allows for large container sizes and higher blow up ratios.

High Purity: 7235 features minimum taste and odor and optimum thermal stability for superior color and processability.

FDA: 7235 complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications: 7235 is ideal for both injection and extrusion blow molded containers for food, drug, cosmetic and toiletry applications requiring superior impact, strength and clarity.

Processing: 7235 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 Elongation @ Yield	D-638	%	11
Tensile Modulus	D-638	psi (MPa)	120,000 (827)
Flexural Modulus	D-790	psi (MPa)	100,000 (689)
Izod Impact @ 73ºF Notched	D-256A	ft-lb/in (J/m)	1.4 (74)
Mold Shrinkage	D-955	in./in.	0.010-0.025
Thermal Properties(1)			
Melting Point, ºF	DSC(2)	˚F (˚C)	289 (143)
Heat Deflection @ 66 Psi @ 4.64 kg/cm^2	D-648	 ˚F ˚C	 190 88
Barrier Properties(1)			
Moisture Vapor Transmission @ 100ºF	E-96	90% R.H.gms/mil/100 in.^{2} mil/24 hrs.	0.6
Oxygen Transmission @73ºF	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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