TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 7238

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

Description

Polypropylene 7238 offers excellent impact strength, clarity and gloss.

Lubricated: 7238 offers superior core rod release for ease in processing.

High Purity: 7238 features minimum taste and odor, and optimum thermal stability for superior color and processability.

Regulatory: 7238 has passed USP Class VI testing and complies with all applicable FDA regulations for food contact applications.

Applications: 7238 is recommended for blow molded containers for food, drug, cosmetic and toiletry applications requiring superior impact strength and clarity.

Processing: 7238 resin processes on conventional blow molding equipment with typical melt temperatures of 390˚F-450˚F (177˚F-232˚C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	2
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	3,400 (23)
Tensile Elongation @ Yield	D-638	%	11
Tensile Modulus	D-638	psi (MPa)	140,000 (965)
Flexural Modulus	D-790	psi (MPa)	120,000 (827)
Izod Impact Notched @ 73˚F	D-256A	ft-lb/in (J/m)	1.3 (69)
Thermal Properties(1)			
Melting Point	DSC(2)	˚F (˚C)	289 (143)
Heat Deflection @ 66 Psi @ 4.64 kg/cm^2	D-648	 ˚F ˚C	 190 88
Other Physical Properties			
Density	D-1505	g/cc	0.900
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

(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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Polypropylene