



# Polypropylene 7238

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

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

### 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
<b>Rheological Properties</b>			
Melt Flow	D-1238 Condition "L"	g/10 min	2
<b>Mechanical Properties</b>			
Tensile	D-638	psi (MPa)	3,400 (23)
Elongation	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)
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	289 (143)
Heat Deflection @ 66 Psi @ 4.64 kg/cm <sup>2</sup>	D-648	°F °C	190 88
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.900
Moisture Vapor Transmission, @ 100°F	E-96	90% R.H.gms/mil/100 in. <sup>2</sup> mil/24 hrs.	0.6
Oxygen Transmission, @73°F	D-1434	cc/100 in <sup>2</sup> mil/24 hrs./atm	240

Polypropylene

(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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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

1-800-344-3462