



**TotalEnergies**

TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

**Polypropylene 3230**

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

**Description**

**Polypropylene 3230** offers superior core rod release, eliminating the need for additional lubricant.

**High Purity:** 3230 features minimum taste and odor, and optimum thermal stability for superior color and processability.

**FDA:** 3230 complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

**Applications:** 3230 is ideal for food, cosmetic and pharmaceutical injection blow molded containers.

**Processing:** 3230 processes on conventional blow molding equipment with typical melt temperatures of 380-480°F (199-232°C).

**Characteristics**

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238	g/10 min	1.6
<b>Mechanical Properties</b>			
Tensile	D-638	psi (MPa)	4,800 (33)
Elongation	D-638	%	8
Tensile Modulus	D-638	psi (MPa)	200,000 (1,380)
Flexural Modulus	D-790	psi (MPa)	170,000 (1,170)
Izod Impact Notched @ 73°F	D-256A	ft.-lbs/in. (J/m)	0.7 (37)
Hardness Rockwell R	D-785A		107
<b>Thermal Properties<sup>(1) (2)</sup></b>			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi °C @ 4.64 kg/cm <sup>2</sup>	250 121
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.905
Moisture Vapor Transmission @ 100°F (38°C)	E-96	@ 100°F (38°C), 90% R.H. gms/mil/100 in. <sup>2</sup> / 24 hrs.	0.45
Oxygen Transmission, @ 73°F (23°C)	D-1434	cc/100 in <sup>2</sup> 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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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