



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
Rheological Properties			
Melt Flow	D-1238	g/10 min	1.6
Mechanical Properties			
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
Thermal Properties ^{(1) (2)}			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	250
		°C @ 4.64 kg/cm²	121
Other Physical Properties			
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. ² /24 hrs.	0.45
Oxygen Transmission, @ 73°F (23°C)	D-1434	cc/100 in² 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

