

Total 7231X Polypropylene, Blow Molding Grade (discontinued **)

Categories: [Polymer](#); [Thermoplastic](#); [Polypropylene \(PP\)](#); [Polypropylene, Blow Molding Grade](#)

Material Notes:

Random copolymer blow molding grade with improved impact and clarity

Impact Strength -- FINA 7231X offers excellent impact strength, clarity and gloss.

Lubricated -- FINA 7231X offers superior core rod release for ease in processing.

High Purity - FINA 7231X features minimum taste and odor, and optimum thermal stability for superior color and processability.

FDA -- FINA 7231X complies with all applicable FDA regulations and may be used under these provisions for food contact and packaging.

Recommended Applications -- FINA 7231X is recommended for blow molded containers for food, drug, cosmetic and toiletry applications requiring superior impact strength and clarity.

Processing -- FINA 7231X resin processes on conventional blow molding equipment with typical melt temperatures of 390-450°F (177- 232°C)

Data provided by the manufacturer, Total Petrochemicals.

Total Petrochemicals includes former Fina and Atofina plastics product lines.

Vendors: [Click here to view all available suppliers for this material.](#)

Please [click here](#) if you are a supplier and would like information on how to add your listing to this material.

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D1505
Moisture Vapor Transmission	9.40 cc-mm/m ² -24hr-atm	23.9 cc-mil/100 in ² -24hr-atm	g/mil/m ² /24 hrs @ 100°F (38°C), 90%RH; ASTM E96
Oxygen Transmission	95.0 cc-mm/m ² -24hr-atm @Temperature 23.0 °C	241 cc-mil/100 in ² -24hr-atm @Temperature 73.4 °F	cc-mm/m ² -24hr-atm; ASTM D1434
Melt Flow	2.0 g/10 min	2.0 g/10 min	ASTM D1238L
Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	23.4 MPa	3390 psi	ASTM D638
Elongation at Break	11 %	11 %	ASTM D638
Modulus of Elasticity	0.827 GPa	120 ksi	ASTM D638
Flexural Modulus	0.689 GPa	99.9 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256A
Thermal Properties	Metric	English	Comments
Melting Point	143 °C	289 °F	DSC
Deflection Temperature at 0.46 MPa (66 psi)	88.0 °C	190 °F	ASTM D648
Processing Properties	Metric	English	Comments
Melt Temperature	177 - 232 °C	351 - 450 °F	blow molding

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Materials flagged as discontinued (🚫) are no longer part of the manufacturer's standard product line according to our latest information. These materials may be available by special order, in distribution inventory, or reinstated as an active product. Data sheets from materials that are no longer available remain in MatWeb to assist users in finding replacement materials.

Users of our Advanced Search (registration required) may exclude discontinued materials from search results.

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