



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 7425

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

Description

Polypropylene 7425 a random copolymer, exhibits excellent clarity when molded in polished molds.

Impact: 7425 produced molded parts with measurably improved impact compared with parts molded from polypropylene homopolymers.

Regulatory: 7425 has passed USP Class VI testing, all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). 7425 complies with all applicable FDA regulations for food contact applications.

Recommended Application: 7425 is recommended for injection molding medical devices and disposables, clear food containers and specialty housewares.

Processing: 7425 resin processes on conventional injection molding equipment with typical melt temperatures of 390-450°F (200-232°C).

Made to Order Grade: Two railcar minimum order; take or pay agreement required; 90-day minimum lead time

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	4
Mechanical Properties			
Tensile	D-638	psi (MPa)	3,200 (22.1)
Elongation	D-638	%	11
Tensile Modulus	D-638	psi (MPa)	110,000 (760)
Flexural Modulus	D-790	psi (MPa)	90,000 (620)
Izod Impact @ 73°F Notched Unnotched	D-256A	ft.lb./in. (J/m)	1.3 (69.4) No Break
Drop Impact, 0.125"	API ⁽³⁾	Plaques, in.-lbs. (J)	210 (23.7)
Hardness	D-785A	Rockwell R	85
Thermal Properties⁽¹⁾			
Melting Point, °F	DSC ⁽²⁾	°F (°C)	293 (145)
Heat Deflection °F @ 66 °C @ 4.64	D-648	psi kg/cm ²	190 88
Other Physical Properties			
Density	D-1505	g/cc	0.900

(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.
(3) Test procedure available upon request.

Rev: Sept 2023

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

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

