



TotalEnergies Petrochemicals & Refining USA, Inc.  
Polymers Americas

# Polypropylene 3825WZ

Technical Data Sheet  
Polypropylene – Homopolymer  
Produced in the United States

## Description

**Polypropylene 3825WZ** is engineered with nucleation to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

**Antistat.** 3825WZ contains an antistat that will help protect molded parts from dust accumulation.

**FDA:** 3825WZ complies with all applicable FDA regulations for food contact applications.

**Applications:** 3825WZ is recommended for large thin wall parts, caps, and closures.

**Processing:** 3825WZ resin processes on conventional injection molding equipment with typical melt temperatures of 390°F-450°F (200°C-232°C).

## Characteristics

	Method	Unit	Typical Value
<b>Rheological Properties</b>			
Melt Flow	D-1238 Condition "L"	g/10 min	30
<b>Mechanical Properties</b>			
Tensile Strength @ Yield	D-638	psi (MPa)	5,600 (40)
Elongation @ Yield	D-638	%	11
Tensile Modulus	D-638	psi (MPa)	250,000 (1,725)
Flexural Modulus	D-790	psi (MPa)	260,000 (1,795)
Izod Impact @ 73°F			
Notched	D-256A	ft.-lbs/in. (J/m)	0.6 (32)
Unnotched			16 (854)
Hardness	D-785A	Rockwell R	107
<b>Thermal Properties<sup>(1)(2)</sup></b>			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	260
		°C @ 4.64 kg/cm <sup>2</sup>	127
<b>Other Physical Properties</b>			
Density	D-1505	g/cc	0.905

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.

Rev: Sept 2021

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