TotalEnergies

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
Rheological Properties			
Melt Flow	D-1238 Condition "L"	g/10 min	30
Mechanical Properties			
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 Unnotched	D-256A	ft-lb/in (J/m)	 0.6 (32) 16 (854)
Hardness	D-785A	Rockwell R	107
Thermal Properties(1)(2)			
Melting Point	DSC(2)	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi °C @ 4.64 kg/cm^2	260 127
Other Physical Properties			
Density	D-1505	g/cc	0.905

(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