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Polypropylene 3825WZ

Technical Data Sheet Polypropylene – Homopolymer Produced in the United States

TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc. Polymers Americas

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	ftIbs/in. (J/m)	0.6 (32) 16 (854)
Hardness	D-785A	Rockwell R	107
Thermal Properties ⁽¹⁾⁽²⁾			
Melting Point	DSC	°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

Data developed under laboratory conditions and are not to be used as specification, maxima or minima.
MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request.

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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 Betrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MARS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies limitly and customer of its products, totalEnergies indicated is a general guide only and the users of a selection of its products. TotalEnergies Interview of the users of the user of th