TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene M8623KZ

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

Description

Clarity – M8623KZ exhibits excellent clarity in molded parts.

Impact – M8623KZ produces molded parts with improved impact in comparison to parts molded from conventional clarified random copolymers.

Antistat – M8623KZ contains an antistat to help protect molded parts from dust accumulation.

FDA – M8623KZ complies with all applicable FDA regulations for food contact applications.

Applications – M8623KZ is recommended for injection molding housewares, caps and closures, packaging and other items requiring a balance of impact, clarity and easy mold release.

Processing – M8623KZ 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	12
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	4,500 (31)
Tensile Elongation @ Yield	D-638	%	9
Tensile Modulus	D-638	psi (MPa)	190,000 (1,310)
Flexural Modulus	D-790	psi (MPa)	190,000 (1,310)
Izod Impact @73°F Notched Unnotched	D-256A	 ft-lb/in (J/m) ft-lb/in (J/m)	 1.0 (53) No Break
Haze, 0.04" plaques	D-1003	%	8
Thermal Properties(1)			
Melting Point	DSC(2)	°F (°C)	271 (133)
Heat Deflection @ 66 psi @ 4.64 kg/cm^2	D-648	 °F °C	 171 77
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

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