









Polypropylene 3727W

Technical Data Sheet Polypropylene - Random Copolymer **Produced in the United States**

TotalEnergies Petrochemicals & Refining USA, Inc.

Polymers Americas Description

Polypropylene 3727W strikes an optimum balance between excellent mechanical properties (tensile, flex and impact) and processability making it a superior molding grade for cap and closure applications.

Impact Strength. 3727W offers improved impact strength.

Nucleation. 3727W is formulated to provide fast cycle time and improve contact clarity in thin wall multi-cavity molds.

Regulatory. 3727W has passed USP Class VI testing, and all ingredients meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). TOTAL Polypropylene 3727W complies with all applicable FDA regulations for food contact applications.

Recommended Application. 3727W is recommended for large thin wall parts, caps and closures.

Processing. 3727W 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
D-1238 Condition "L"	g/10 min	20
D-638	psi (MPa)	4,800 (35)
	%	8
D-638	psi (MPa)	180,000 (1,240)
D-790	psi (MPa)	190,000 (1,310)
D-256A	ftlbs/in. (J/m)	1.0 (53)
API (3)	Plaques in.lbs. (J)	160 (18)
DSC	°F (°C)	316 (158)
D-648	°F @ 66 psi	220
	°C @ 4.64 kg/cm ²	105
D-1505	g/cc	0.905
	D-1238 Condition "L" D-638 D-638 D-790 D-256A API (3) DSC D-648	D-1238 Condition "L" D-638 D-638 D-638 D-638 D-790 D-790 D-256A API (3) Plaques in.lbs. (J) DSC "F ("C) D-648 "C @ 4.64 kg/cm ²

⁽¹⁾ Data developed under laboratory conditions and are not to be used as specification, maxima or minima.

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⁽²⁾ MP determined with a DSC-2 Differential Scanning Calorimeter. Test procedure available upon request (3) Test procedure available upon request...