



TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 7844CR

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

Description

Polypropylene 7844CR resist the embrittlement and yellowing after effective doses of sterilizing radiation.

Impact: 7844CR produces molded parts with high impact compared with parts molded from other random copolymers.

Easy Flow: 7844CR exhibits exceptionally easy flow characteristics.

FDA: 7844CR complies with all applicable FDA regulations for food contact applications.

Lubricated: 7844CR contains a lubricant for improved demolding.

Recommended Applications: 7844CR is recommended for injection molding medical devices, housewares, hinged closures and other items calling for good impact, flexibility and good clarity.

Processing: 7844CR resin processes on conventional injection molding equipment with typical melt temperatures of 390-450°F (200-232°C).

Made to Order Grade: Two railcar minimum order; take or pay agreement required; 90-day minimum lead time

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	27
Mechanical Properties			
Elongation	D-638	%	10
Tensile Modulus	D-638	Psi (MPa)	125,000 (860)
Flexural Modulus	D-790	psi (MPa)	100,000 (690)
Tensile Strength at Yield	D-638	psi (MPa)	3250 (22.4)
Izod Impact @ 73°F Notched	D-256A	ft.-lbs/in. (J/m)	0.9 (48)
Drop Impact, 0.125" plaques	D-5420	In.-lbs. (J)	200 (23)
Hardness	D-288A	Rockwell R	62
Thermal Properties ⁽¹⁾			
Melting Point	DSC ⁽²⁾	°F (°C)	293(145)
Heat Deflection °F @ 66	D-648	psi	162
°C @ 4.64		kg/cm²	72
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.

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Polypropylene

