TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3480Z

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3480Z is formulated specifically to give excellent process stability in high profile extrusion.

High Purity: Low catalyst residues in 3480Z provide outstanding color, plus low taste and odor.

Antistat: 3480Z is formulated to minimize surface static build-up.

FDA: 3480Z complies with all applicable FDA regulations for food contact applications.

Applications: 3480Z is recommended for high speed profile extrusion for standard and flexible drinking straws.

Processing: 3480Z processes on conventional extrusion equipment with typical melt temperatures of 392°F-450°F (200°C-232°C).

Characteristics

	Method	Unit	Typical Value
Rheological Properties			
Melt Flow	D-1238	g/10 min	4.8
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	5,300 (35)
Tensile Elongation @ Yield	D-638	%	10
Elongation @ Break	D-638	%	>100
Tensile Modulus	D-638	psi (MPa)	215,000 (1480)
Flexural Modulus	D-790	psi (MPa)	200,000 (1,380)
Izod Impact @ 73°F			
Notched	D-256A	ft-lb/in (J/m)	0.5 (27)
Unnotched			24.0 (1,281)
Hardness			
Shore D	D-1706		77
Rockwell R			90
Thermal Properties (1)			
Melting Point	DSC(2)	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	225
		°C @ 4.64 kg/cm^2	107
Coefficient of Linear Thermal Expansion	D-696	in./in./°F x 10^{-5}	5.6
		cm/cm/°C x 10^{-5}	10
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.

Rev: Feb 2026

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Polypropylene