TotalEnergies

TotalEnergies Petrochemicals & Refining USA, Inc.
Polymers Americas

Polypropylene 3429

Technical Data Sheet
Polypropylene – Homopolymer
Produced in the United States

Description

Polypropylene 3429 is engineered with an LTHA additive system that gives excellent bleach resistance in hot/wet environments that contain bleach and laundry detergents.

UL Rating: 3429 has a UL rating at 120˚C (248˚F).

FDA: 3429 complies with all applicable FDA regulations for food contact applications.

Recommended Applications: 3429 is recommended for appliance parts and is particularly suited for parts that are exposed to a hot/wet environment such as: washing machine, dishwasher and coffee machine parts.

Processing: 3429 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	g/10 min	4.3
Mechanical Properties			
Tensile Strength @ Yield	D-638	psi (MPa)	4,800 (33)
Tensile Elongation @ Yield	D-638	%	12
Tensile Modulus	D-638	psi (MPa)	200,000 (1,380)
Flexural Modulus	D-790	psi (MPa)	180,000 (1,240)
Izod Impact Notched @ 73˚F Unnotched	D-256A	ft-lb/in (J/m)	0.6 (32) 24 (1,281)
Hardness Rockwell R	D-785A		103
Thermal Properties(1)			
Melting Point	DSC(2)	˚F (˚C)	330 (165)
Heat Deflection	D-648	˚F @ 66 psi ˚C @ 4.64 kg/cm^2	250 121
UL Rating		˚F (˚C)	248 (120)
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