


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 @ Yield	D-638	psi (MPa)	4,800 (33)
Elongation	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.-lbs/in. (J/m)	0.6 (32) 24 (1,281)
Hardness Rockwell R	D-785A		103
Thermal Properties⁽¹⁾⁽²⁾			
Melting Point	DSC	°F (°C)	330 (165)
Heat Deflection	D-648	°F @ 66 psi	250
		°C @ 4.64 kg/cm ²	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.

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All tests were run under laboratory conditions. ASTM (where applicable) testing procedures. The data are intended as a general guide only and do not necessarily represent results that may be obtained elsewhere. The use of TotalEnergies products must be guided by the users own methods for selection of proper formulation. TotalEnergies Petrochemicals & Refining USA Inc. disclaims any responsibility for misuse or misapplication of its products. TotalEnergies MAKES NO WARRANTY OF MERCHANTABILITY AND THERE IS NO WARRANTY THAT GOODS SUPPLIED SHALL BE FIT FOR ANY PARTICULAR PURPOSE. TotalEnergies' liability and customer's exclusive remedy for any claims arising out of sales of its products are expressly limited at customer option to replacement of non-performing goods or payment not to exceed the purchase price plus transportation charges thereon in respect to any material which damage is claimed.