TECNOPRENE® AK7HCT

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High crystallinity polypropylene homopolymer reinforced with 35% chemically coupled glass fiber, high heat stabilization. (PP-GF35)

Product information

Resin Identification	PP-GF35		ISO 1043
Part Marking Code	>PP-GF35<		ISO 11469

Rheological properties

Melt mass-flow rate	2	g/10min	ISO 1133
Melt mass-flow rate, Temperature	446	°F	
Melt mass-flow rate, Load	4.76	lb	
Molding shrinkage range, parallel	0.2 - 0.5	%	ISO 294-4, 2577
Molding shrinkage range, normal	0.4 - 0.8	%	ISO 294-4, 2577

Typical mechanical properties

Tensile modulus	1.23E6	psi	ISO 527-1/-2
Tensile stress at break, 5mm/min	15200	psi	ISO 527-1/-2
Tensile strain at break, 5mm/min	2.6	%	ISO 527-1/-2
Flexural modulus	1.23E6	psi	ISO 178
Flexural strength	24700	psi	ISO 178
Charpy impact strength, 23°C	26.2	ftlb/in²	ISO 179/1eU
Charpy impact strength, -30°C	24.7	ftlb/in²	ISO 179/1eU
Charpy notched impact strength, 23°C	5.71	ftlb/in²	ISO 179/1eA
Charpy notched impact strength, -30°C	4.28	ftlb/in²	ISO 179/1eA
Poisson's ratio	0.4		

Thermal properties

Temperature of deflection under load, 1.8 MPa	306	°F	ISO 75-1/-2
Coefficient of linear thermal expansion (CLTE), parallel	0.14[1]	E-4/°F	ISO 11359-1/-2
Coefficient of linear thermal expansion (CLTE), normal	0.733[1]	E-4/°F	ISO 11359-1/-2

[1]: Temperature range: 0°C to 100°C

Flammability

Burning Behav. at 1.5mm nom. thickn.	HB	class	IEC 60695-11-10
Burning Behav. at thickness h	HB	class	IEC 60695-11-10
Thickness tested	0.1260	in	IEC 60695-11-10
FMVSS Class	B		ISO 3795 (FMVSS 302)
Burning rate, Thickness 1 mm	2.68	in/min	ISO 3795 (FMVSS 302)

Electrical properties

Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Comparative tracking index	400		IEC 60112

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Physical/Other properties

Density	0.0426 lb/in³	ISO 1183

Injection

Ejection temperature	243 °F

Automotive

OEM	STANDARD	ADDITIONAL INFORMATION
Renault	UB02a, PMR2020, Black(NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB02d, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB04a, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB05a, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB05i, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB09a, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB09b, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB09c, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB09h, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB11, PMR2020, Black (NERO AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
Renault	UB15, PMR2020, Black (Nero AS9), No Spec, Special Part Approval, See Your CE Account Manager.	
VW Group	VW 44045	PP10

Characteristics

Processing	Injection Molding
Special characteristics	Heat stabilized or stable to heat

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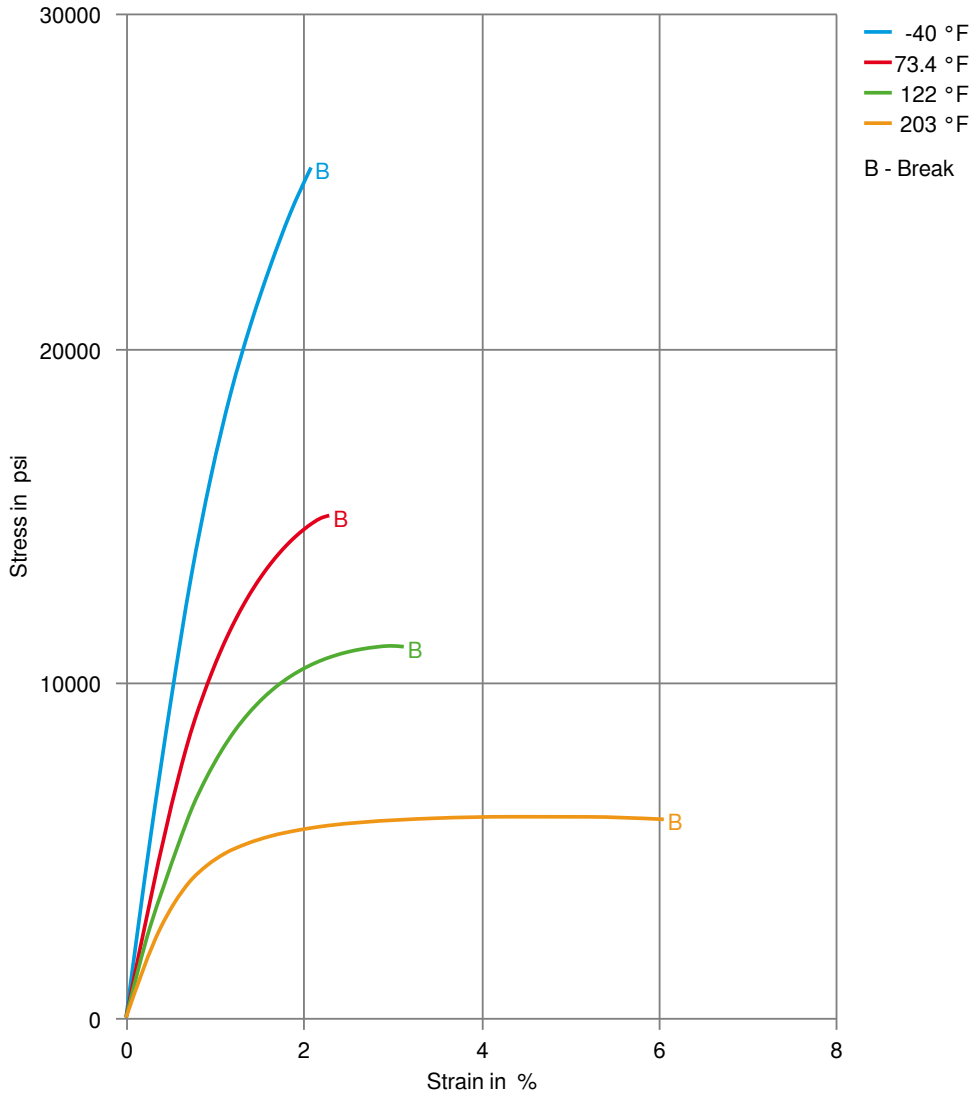
Additional information

Processing Notes

Storage

This product should be stored in a covered facility and kept away from moisture and heat.

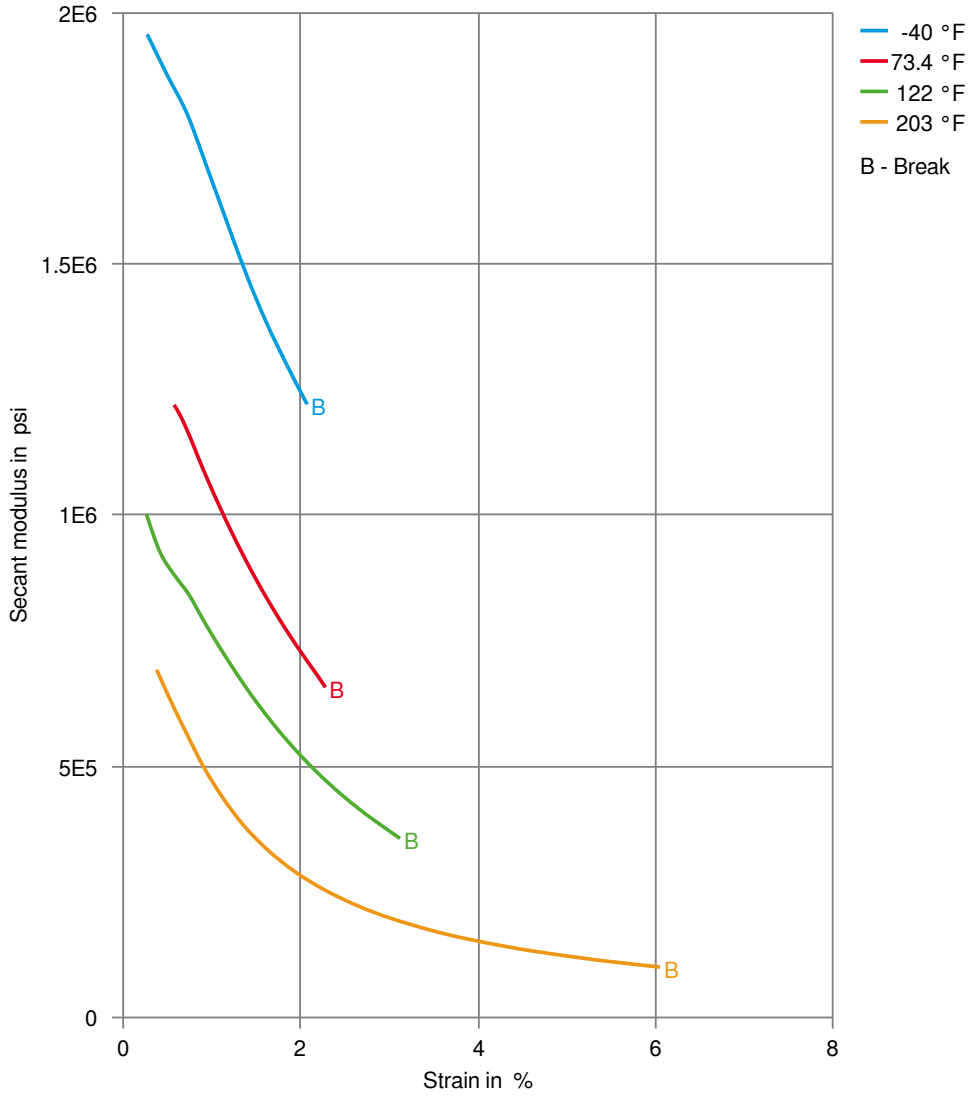
Stress-strain



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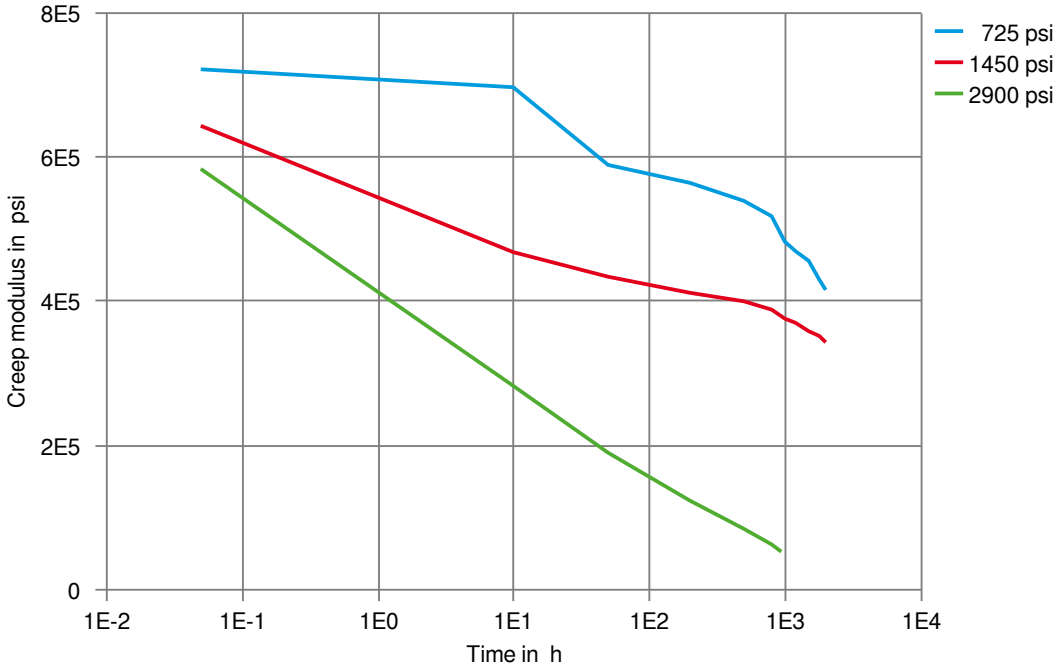
Secant modulus-strain



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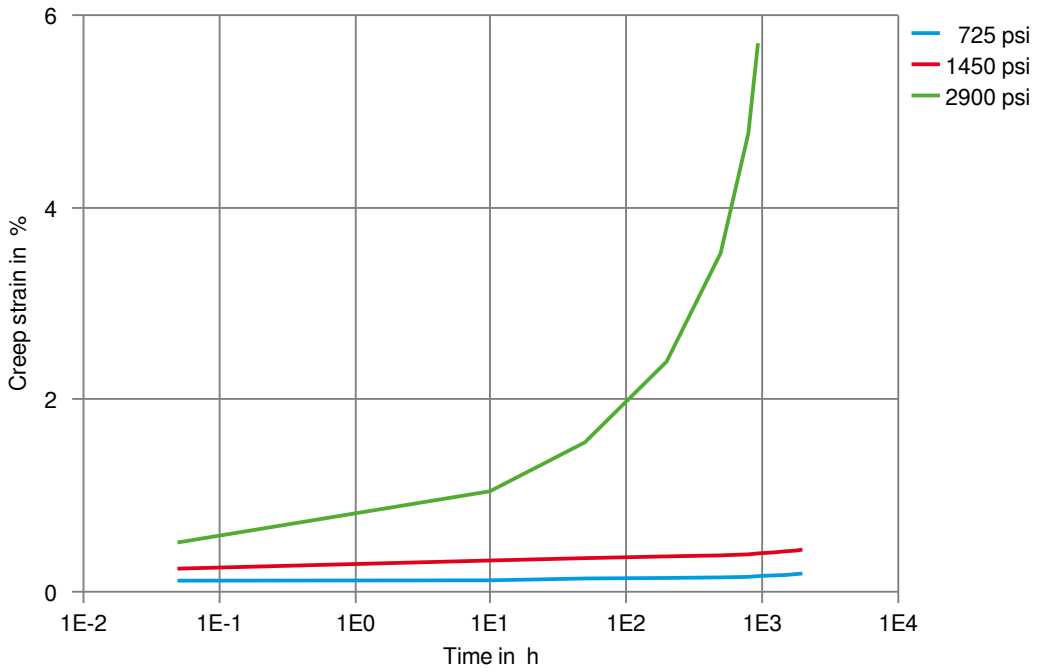
Creep modulus-time 176 °F



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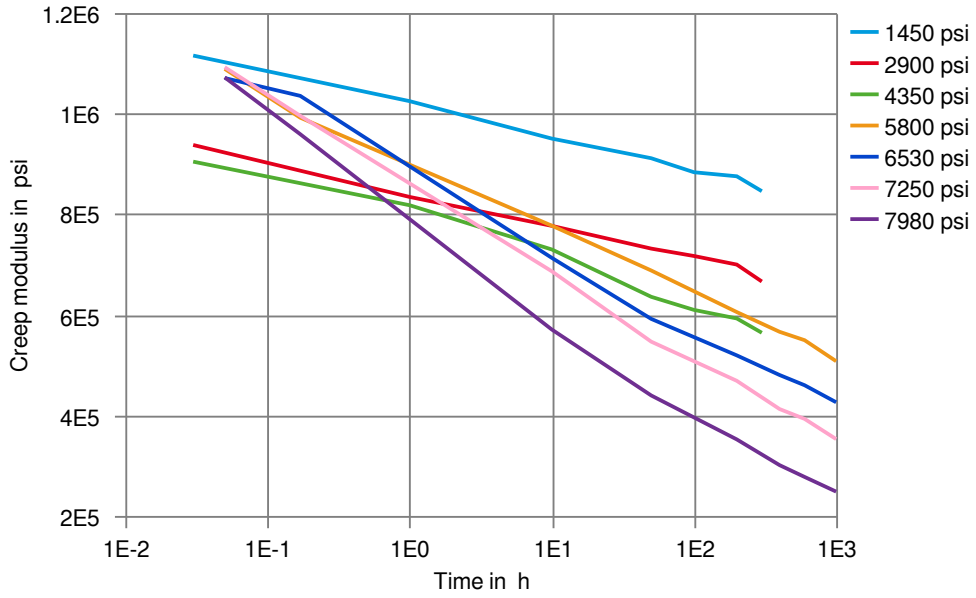
Creep strain-time 176 °F



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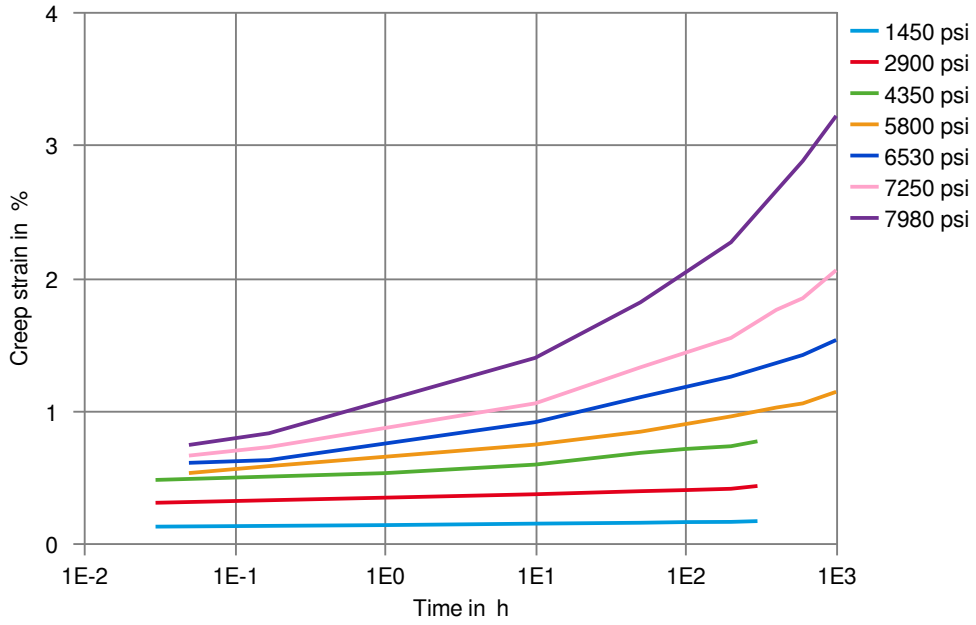
Creep modulus-time 73.4 °F



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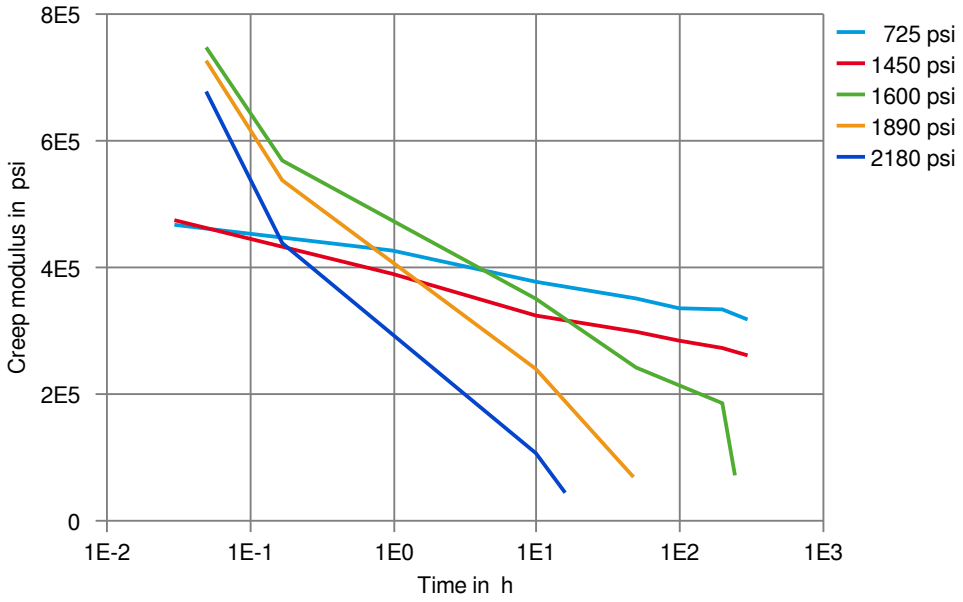
Creep strain-time 73.4 °F



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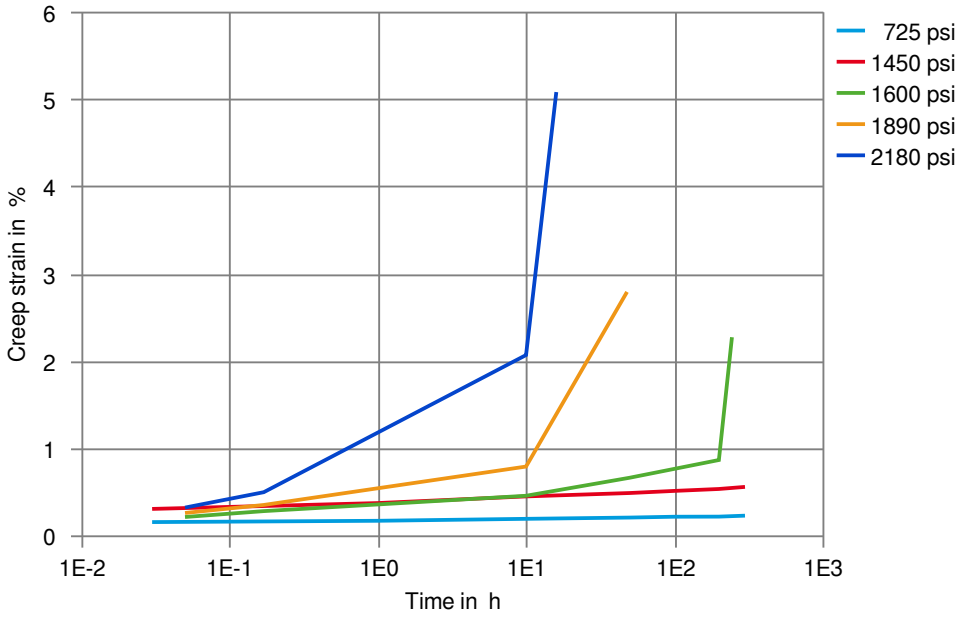
Creep modulus-time 248 °F



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Creep strain-time 248 °F



Revised: 2026-08-12 Source: Celanese Materials Database

NOTICE TO USERS: Values shown are based on testing of laboratory test specimens and represent data that fall within the standard range of properties for natural material. These values alone do not represent a sufficient basis for any part design and are not intended for use in establishing maximum, minimum, or ranges of values for specification purposes. Colorants or other additives may cause significant variations in data values. Properties of molded parts can be influenced by a wide variety of factors including, but not limited to, material selection, additives, part design, processing conditions and environmental exposure. Other than those products expressly identified as medical grade (including by MT® product designation or otherwise), Celanese's products are not intended for use in medical or dental implants. Regardless of any such product designation, any determination of the suitability of a particular material and part design for any use contemplated by the users and the manner of such use is the sole responsibility of the users, who must assure themselves that the material as subsequently processed meets the needs of their particular product or use. To the best of our knowledge, the information contained in this publication is accurate; however, we do not assume any liability whatsoever for the accuracy and completeness of such information. The information contained in this publication should not be construed as a promise or guarantee of specific properties of our products. It is the sole responsibility of the users to investigate whether any existing patents are infringed by the use of the materials mentioned in this publication. Moreover, there is a need to reduce human exposure to many materials to the lowest practical limits in view of possible adverse effects. To the extent that any hazards may have been mentioned in this publication, we neither suggest nor guarantee that such hazards are the only ones that exist. We recommend that persons intending to rely on any recommendation or to use any equipment, processing technique or material mentioned in this publication should satisfy themselves that they can meet all applicable safety and health standards. We strongly recommend that users seek and adhere to the manufacturer's current instructions for handling each material they use, and entrust the handling of such material to adequately trained personnel only. Please call the telephone numbers listed for additional technical information. Call Customer Services for the appropriate Materials Safety Data Sheets (MSDS) before attempting to process our products.
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