

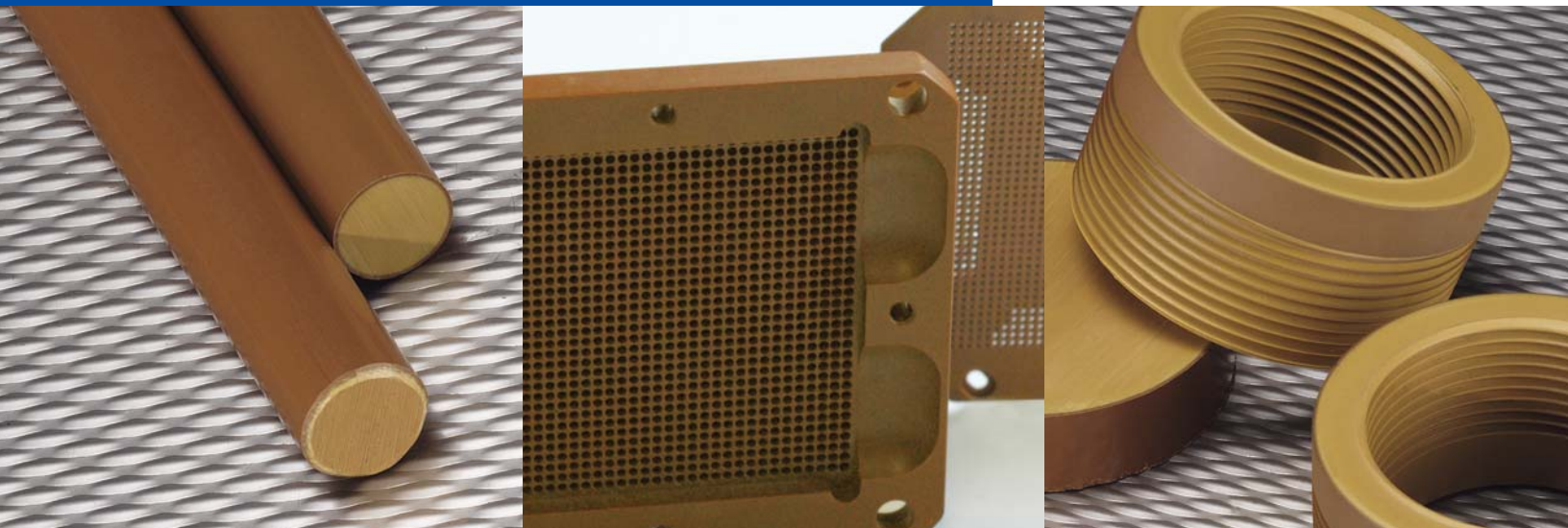
TECATOR™ POLYAMIDE-IMIDE

Curbell PLASTICS

Curbell Plastics, celebrating 65 years, supplies plastic sheet, rod, tube, films, adhesives, sealants, prototyping materials, and fabricated parts to markets nationwide

HIGH PERFORMANCE PARTS MADE FROM TECATOR™ POLYAMIDE-IMIDE:

- Excellent weather and gamma radiation resistance
- Outstanding bearing and wear properties (Bearing grade)
- Strong and stiff
- Excellent electrical insulator (Electrical grade)
- Good chemical resistance
- Excellent mechanical properties over a broad temperature spectrum — cryogenic to 450°F



**pump parts • valve seats • piston rings • bearing cages
seal rings • test sockets • chip nests • welding nozzle tips**

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TECATOR™

Property	Units	ASTM TEST	TECATOR™ 2154 Electrical Grade	TECATOR™ 2175 Bearing Grade	TECATOR™ 2188 Comp. Molded 30% GF
Specific Gravity, 73°F		D792	1.41	1.46	1.58
Tensile Strength, 73°F	psi	D638	21,000	19,000	17000
Tensile Elongation, 73°F	%	D638	15	10	2
Flexural Strength, 73°F	psi	D790	33,000	23,000	21,000
Flexural Modulus, 73°F	psi	D790	711,000	870,000	821,000
Compressive Strength, 73°F	psi	D695	30,000	-	-
Rockwell Hardness, 73°F	M Scale	D785	M119	M109	M116
Izod Impact (notched), 73°F	ft.lb./inch	D256	2.3	2.3	0.7
Coefficient of Linear Thermal Expansion	in./in. °F	E831	1.66 X 10 ⁻⁵	-	2.11 X 10 ⁻⁵
Heat Deflection Temperature, 264 psi	°F	D648	532	534	600
Tg - Glass Transition	°F	D3418	530	530	530
Continuous Service Temperature, Air	°F		500	500	500
Water Absorption, 73°F - 24 Hour	%	D570	0.4	0.4	0.3
Dielectric Strength	V/mil	D149	600	-	450
Dielectric Constant, 10 ⁶ Hertz		D150	3.9	-	3.8

Note: TECATOR™ has a high moisture absorption rate. Parts must be dry prior to rapid exposure to temperatures above 300°F.

TECATOR™ is a high performance polyamide-imide that maintains its excellent electrical, mechanical, and bearing and wear properties for demanding applications in extreme environments to 450°F.

Stock shapes from Curbell Plastics are available in three grades:

- **TECATOR™ 2154** has excellent electrical insulating properties
- **TECATOR™ 2175** offers high PV capabilities in bearing applications, ideally suited for applications with high loads at low speeds
- **TECATOR™ 2188** is a 30% glass reinforced compression-molded grade, with superior stiffness and dimensional stability, it is available in a wide variety of custom tube, ring, rod and plate sizes

Our material partner  **ENSINGER**
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For a complete list of addresses, contact information, materials, or to request a quote please visit our website: www.curbellplastics.com

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