

PRODUCT SELECTION GUIDE

Danimer Scientific Product Comparison Guide

Danimer Scientific offers a groundbreaking portfolio of sustainable materials, including PHA and PLA.

Danimer Scientific's PHA is 100% bio-based and biodegradable, and their PLA is 100% bio-based and industrial compostable. With engineers ready to customize formulations for specific needs, the utilization opportunities are endless! The table below shows standard resins and preferred applications.

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	PHA						
	Thermoforming Resin			Inejction Molding Resin		Film Resin	Profile Extrusion Resin
	Nodax® 2194	Nodax® 2192	Nodax® 2328	Nodax® 2038	Nodax® 2925	Nodax® 2205	Nodax® 2272
Tensile Yield Strength (psi)	4000	4300	6700	3700	4300	5100	3800
Tensile Break Strength (psi)	3900	4000	6100	3500	4500	3500	3600
Tensile Modulus (psi)	182000	120000	270000	144000	106000	165000	107000
Flexural Modulus (psi)	130000	170000	240000	1245000	110000	75000	73000
Flexural Strength (psi)	1600	2700	3200	31000	2100	2200	1800
Break Elongation	6.50%	7.00%	6.00%	6.00%	11.30%	4.25%	9.00%
Notched Izod Impact (ft-lb/in)	0.09	–	0.13	0.12	0.22	–	0.11
Melt Flow Rate (g/10 min)	15–40	–	75–100	7–10	5–10	3–5	7.8
Example Applications	Food service ware, plant trays, paint trays			Cutlery, food packaging, single serve coffee pods		Produce bags, garbage bags, t-shirt bags	Profile extrusion applications, drinking straws

Danimer Scientific also offers aqueous (coating) dispersions of PHA.

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	PLA						
	Extrusion Coating Resin		Injection Molding Resin		Flexible Film Resin	Profile Extrusion Resin	
	Danimer 752	Danimer 26806	Danimer 15120	Danimer 2688	Danimer 1927	Danimer 2513	Danimer 26872
Tensile Yield Strength (psi)	8800	7856	4810	–	1853	3900	5300
Tensile Break Strength (psi)	8600	3704	3255	2100	6027	3200	1800
Tensile Modulus (psi)	140000	443780	179241	40000	–	61000	123000
Flexural Modulus (psi)	69000	203000	170000	51000	–	–	229000
Flexural Strength (psi)	2800	8300	6400	1350	–	–	8300
Break Elongation	15.40%	8.00%	21.00%	30.00%	–	11.00%	23.00%
Notched Izod Impact (ft-lb/in)	0.136	–	–	–	–	–	0.35
Melt Flow Rate (g/10 min)	2.5	1.4	20–22	–	3	3–5	3.1
Example Applications	Extrusion coating applications, food service application		Cutlery, food service, semi-durable goods		Flexible film applications, food service	Profile extrusion applications, drinking straws, food service	

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