

PEBA

Pebax[®] 7233, 7033, 6333, 5533, 4033, 3533

Pebax nylons have high elastic memory, better low temperature properties and higher elongation at break than other TPEs. It is available with a Shore D hardness range from 35 to 72, producing a broad spectrum of mechanical properties.

Summary of Properties

Property	ASTM Test Method	Units	Pebax [®] 7233	Pebax [®] 7033	Pebax [®] 6333	Pebax [®] 5533	Pebax [®] 4033	Pebax [®] 3533
Specific Gravity	D792		1.02	10.2	1.01	1.01	1.01	1.01
Water Absorption Equilibrium (20°C, 50% RH>) 24 Hr. Immersion	D570	%		.64 .83		.05 1.2	.05 1.2	.05 1.2
Hardness	D2240		72D	69D	63D	55D	40D	35D
Tensile Strength, Ultimate	D638	Psi	6210	8300	8100	7300	5700	5600
Elongation, Ultimate	D638	%	360	400	300	430	390	580
Flexural Modulus	D790	Psi	107000	67000	49000	29000	13000	2800
Izod Impact, Notched 20°C -40°C	D256	ft-lb/in	1.4 1.4	NB 0.95	NB 1.5	NB NB	NB NB	NB NB
Abrasion Resistance H18/1000g	D1044	Mg/1000 Cycles	29	57	84	93	94	104
Tear Resistance Notched	D624C	lb/in	1400	900	850	650	400	260
Melt Point	D3418	°F	348	345	342	334	334	306
Vicat Softening Point	D1525	°F	327	329	322	291	270	165
HDT 66Psi	D648	°F	223	208	194	151	126	115
Compression Set (24 Hr., 160°F)	D395A	%		6	6	10	21	54

NOTE: All data courtesy of Atofina Chemicals, Inc. Properties are based on unpigmented, unfilled resin per relevant ASTM-D.

MARKET APPLICATIONS:

- Electrical and electronics
- Medical catheters
- Packaging
- Subassembly aid
- Textiles



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