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Nylomax PA(near prime) Nylon Resin

Test	Material	Tensile	Elongation	Flex Mod	Flex Strength	IZOD	Density	HDT	Melting Point	Filler Content
Test Method(ASTM)		D 638	D 638	D 790	D 790	D 256	D 792	D 648	D 3418	D 5630
UNITS		psi	%	psi	psi	ft-lb/in	g/cm3	°C@264 psi	°C	%
Unfilled										
PA6L/PA6HSL	NYLON 6	11,500	50.0%	420,000	16,000	1.0	1.13	63	220	N/A
PA66L/PA66HSL	NYLON 66	12,000	45.0%	440,000	18,000	1.0	1.14	158	259	N/A
Impact Modified										
IM036	NYLON 6	9,200	40.0%	315,000	12,000	3.0	1.09	60	215	N/A
IM206	NYLON 6	7,000	95.0%	250,000	10,000	18.0	1.07	60	215	N/A
IM0366	NYLON 66	8,800	45.0%	320,000	13,000	3.0	1.09	74	255	N/A
IM2066	NYLON 66	6,800	100.0%	245,000	9,500	18.0	1.07	71	255	N/A
Glass Filled										
PA6G15	NYLON 6	17,000	6.0%	750,000	27,000	1.1	1.23	207	220	15.0%
PA6G30	NYLON 6	26,000	5.0%	1,200,000	31,000	2.0	1.38	207	220	30.0%
PA6G43	NYLON 6	29,000	3.0%	1,800,000	42,000	2.2	1.48	207	220	43.0%
PA6G50	NYLON 6	30,000	2.5%	2,050,000	44,000	3.0	1.57	210	220	50.0%
PA66G13	NYLON 66	16,000	4.0%	750,000	25,000	1.0	1.23	250	259	13.0%
PA66G33	NYLON 66	28,000	3.0%	1,400,000	36,000	2.0	1.39	250	259	33.0%
PA66G43	NYLON 66	30,000	3.0%	1,800,000	42,000	2.2	1.51	250	259	43.0%
PA66G50	NYLON 66	33,000	3.0%	2,300,000	44,000	3.0	1.59	250	259	50.0%
Glass Filled Impact Modified										
IM6G14	NYLON 6	14,000	10.0%	550,000	22,000	4.0	1.19	207	215	14.0%
IM6G33	NYLON 6	20,000	5.0%	1,100,000	32,000	4.0	1.35	207	215	33.0%
IM66G14	NYLON 66	14,000	10.0%	550,000	22,000	4.0	1.19	220	255	14.0%
IM66G33	NYLON 66	21,000	5.0%	1,200,000	29,000	4.0	1.34	220	255	33.0%
IM66G43	NYLON 66	24,000	5.0%	1,500,000	35,000	4.0	1.45	220	255	43.0%
Mineral Filled/Mineral Glass Filled										
PA6MG40	NYLON 6	17,000	3.0%	1,100,000	30,000	0.8	1.49	201	220	40.0%
PA66M40	NYLON 66	14,000	3.0%	1,000,000	22,000	0.8	1.51	200	259	40.0%
PA66MG40	NYLON 66	18,000	3.0%	1,200,000	27,000	1.0	1.49	240	259	40.0%
PA66M32T	NYLON 66	11,500	15.0%	650,000	16,500	1.5	1.38	192	259	32.0%
Low Wear										
PA66MOS2	NYLON 66	12,000	20.0%	500,000	20,000	0.9	1.16	183	259	N/A
PA66AVL	NYLON 66	10,000	20.0%	370,000	14,000	1.0	1.11	74	255	N/A

Nylomax Recycled Content Nylon Resin

Test	Material	Tensile	Elongation	Flex Mod	Flex Strength	IZOD	Density	HDT	Melt Point	Filler Content
Test Method(ASTM)		D 638	D 638	D 790	D 790	D 256	D 792	D 648	D 3418	D 5630
UNITS		psi	%	psi	psi	ft-lb/in	g/cm3	°C@264 psi	°C	%
Unfilled										
RC6HSL	NYLON 6	11,000	40.0%	400,000	15,000	0.9	1.13	63	218	N/A
RC66HSL	NYLON 66	11,000	20.0%	400,000	17,500	1.0	1.14	158	256	N/A
Impact Modified										
IMRC036HSL	NYLON 6	8,800	35.0%	310,000	11,600	3.0	1.09	60	215	N/A
IMRC206HSL	NYLON 6	6,500	80.0%	245,000	9,600	16.0	1.07	59	215	N/A
IMRC0366HSL	NYLON 66	8,600	40.0%	310,000	12,200	3.0	1.09	72	255	N/A
IMMRC2066HSL	NYLON 66	6,600	80.0%	245,000	9,500	16.0	1.07	71	255	N/A
Glass Filled										
RC6G15HSL	NYLON 6	14,000	5.0%	620,000	23,500	1.0	1.23	193	218	15.0%
RC6G30HSL	NYLON 6	23,000	5.0%	1,100,000	30,500	1.8	1.38	207	218	30.0%
RCU6G33HSL	NYLON 6	18,500	8.0%	1,000,000	28,000	1.6	1.38	207	218	33.0%
RC6G43HSL	NYLON 6	27,000	2.0%	1,500,000	35,500	2.2	1.48	207	218	43.0%
RC6G50HSL	NYLON 6	28,000	2.5%	1,850,000	40,000	3.0	1.57	207	218	50.0%
RC66G13HSL	NYLON 66	14,000	3.0%	600,000	23,800	1.0	1.23	238	258	13.0%
RCU66G33HSL	NYLON 66	18,500	5.0%	1,100,000	29,000	1.5	1.38	238	256	33.0%
RC66G33HSL	NYLON 66	22,000	5.0%	1,250,000	31,000	1.8	1.39	238	256	33.0%
RC66G43HSL	NYLON 66	27,500	3.0%	1,600,000	39,000	2.0	1.51	238	256	43.0%
RC66G50HSL	NYLON 66	30,000	3.0%	2,000,000	40,000	2.5	1.56	245	256	50.0%
RC666G33HSL	NYLON 666	20,000	3.0%	1,000,000	29,000	2.0	1.38	235	250	33.0%
RC666G43HSL	NYLON 666	25,000	3.0%	1,650,000	35,000	2.0	1.50	235	250	43.0%
Glass Filled Impact Modified										
EPDMRC6G14HSL	NYLON 6	13,700	10.0%	520,000	21,000	4.0	1.19	204	215	14.0%
EPDMRC6G33HSL	NYLON 6	19,000	5.0%	1,000,000	30,000	3.0	1.35	207	215	33.0%
EPDMRC66G14 BK	NYLON 66	13,700	10.0%	520,000	21,000	4.0	1.19	220	255	14.0%
EPDMRC66G33 BK	NYLON 66	20,000	5.0%	1,150,000	28,500	4.0	1.34	220	255	33.0%
EPDMRC66G43 BK	NYLON 66	23,000	5.0%	1,400,000	33,500	4.0	1.45	220	255	43.0%
Mineral Filled/Mineral Glass Filled										
RC6MG40HSL	NYLON 6	16,000	3.0%	1,000,000	28,000	0.8	1.49	199	218	40.0%
RC66M40HSL	NYLON 66	14,000	3.0%	1,000,000	21,000	0.8	1.51	220	256	40.0%
RC66MG40HSL	NYLON 66	17,500	3.0%	1,100,000	26,000	1.0	1.49	240	256	40.0%
RC66M32THSL	NYLON 66	11,300	15.0%	640,000	16,200	1.5	1.38	220	256	32.0%

CELMAX ACETAL

Grade	Equivalent to	Density	Melt Flow	Shrinkage	Tensile at Yield	Elongation	Rockwell Hardness	Melt Temp	Heat Deflection	Flammability
Copolymer										
C90	M90	1.41	9	1.8-2.2	62	40	82	165	100	HB
C27	M270	1.41	27	1.8-2.2	60	40	82	165	100	HB
CG25	GC25A	1.58	9	0.4-0.6	110	4	88	165	155	HB/V2
C90UV	UV90Z	1.41	9	1.8-2.2	62	40	82	165	100	HB
Homopolymer										
D500	500P	1.41	15	1.8-2.2	68	30	82	173	90	HB
D500CL	500CL	1.41	15	1.8-2.2	68	30	82	173	90	HB
D500T	500T	1.41	14	1.8-2.2	60	90	75	173	90	HB
D100	100P	1.42	9	2.0-2.5	72	40	90	178	100	HB

POLYCARBONATE

Material	Manufacturer	Density	Melt Flow	Shrinkage	Tensile at Yield	Elongation	Rockwell Hardness	Melt Temp	Heat Deflection	Flammability
PC SC1220UR	Lotte Infino	1.2	20	0.5-0.7	60	110	80	260	125	V2
PC SC1100UR	Lotte Infino	1.2	10	0.5-0.7	60	110	80	260	125	V2
PC Lupoy 1303EP-22	LG	1.2	22	0.5-0.7	62	110	80	260	125	V2

TPV

Material	Manufacturer	Density	Melt Flow	Shrinkage	Tensile at Yield	Elongation	Rockwell Hardness	Melt Temp	Heat Deflection	Flammability
Santoprene 101-55	Celanese	0.97		2-3	7	400	55	200	70	HB
Santoprene 201-64	Celanese	0.97		2-3	8	450	64	200	70	HB
Santoprene 201-55	Celanese	0.97		2-3	7	400	55	200	70	HB

ABS

Material	Manufacturer	Specific Gravity	Melt Flow	Shrinkage	Tensile at Yield	IZOD	Rockwell Hardness	Melt Temp	Heat Deflection	Flammability
Starex SD-0150GW	Lotte	1.04	22	0.3-0.4	440	24	107	220	97	HB
Starex SD-0150GP	Lotte	1.05	1.8	0.4-0.7	45	20	110	220	95	HB
Polimaxx GA850	Polimaxx	1.04	20	0.4-0.6	500	28	105	220	95	HB