

# typical product properties

## TIRE GRADES

ASTM NUMBER	D1510	D2414	D3493	D6556	D6556	D3265	D1513		D412, D3182, D3192	
	Iodine Adsorption g/kg	Oil Absorption 10-5 m3/kg	Oil Absorption Compressed 10-5 m3/kg	NSA Multipoint 103 m2/kg (m2/g)	STSA 103 m2/kg (m2/g)	Tint Strength	Pour Density kg/m3 lb/ft3		Delta Stress at 300% Elongation (vs. IRB7) MPa psi	
N120	122	114	99	126	113	129	345	21.5	-0.4	-60
N234	120	125	102	119	112	123	320	20	-0.1	-10
N326	82	72	68	78	76	111	455	28.5	-3.6	-530
N330	82	102	88	78	75	104	380	23.5	-0.6	-80
LH30	Delta 11 NSA	135	105	92	...	105	...	...	...	...
N339	90	120	99	91	88	111	345	21.5	0.9	140
N343	92	130	104	96	92	112	320	20	1.4	210
N351	68	120	95	71	70	100	345	21.5	1.1	160
N550	43	121	85	40	39	...	360	22.5	-0.6	-90
N650	36	122	84	36	35	...	370	23	-0.7	-110
N660	36	90	74	35	34	...	440	27.5	-2.3	-330

## MECHANICAL RUBBER GRADES

ASTM NUMBER	D1510	D2414	D3493	D6556	D6556	D3265	D1513		D412, D3182, D3192	
	Iodine Adsorption g/kg	Oil Absorption 10-5 m3/kg	Oil Absorption Compressed 10-5 m3/kg	NSA Multipoint 103 m2/kg (m2/g)	STSA 103 m2/kg (m2/g)	Tint Strength	Pour Density kg/m3 lb/ft3		Delta Stress at 300% Elongation (vs. IRB7) MPa psi	
N550*	43	121	85	40	39	...	360	22.5	-0.6	-90
N650	36	122	84	36	35	...	370	23	-0.7	-110
N660	36	90	74	35	34	...	440	27.5	-2.3	-330
N683	35	133	85	36	34	...	355	22	-0.4	-60
N762	27	65	59	29	28	...	515	32	-4.6	-660
N774*	29	72	63	30	29	...	490	30.5	-3.8	-550

\*Low PNA versions of N550 and N774 are also available

## MEDIUM THERMAL GRADES

PARAMETER	ASTM Test method*	Thermax® Floform N990	Thermax® Powder N991
Sieve Residue	D-1514		
325 Mesh Max., % (ppm)		.0015 (15.0)	.025 (250.0)
Magnetics on 325 Mesh (max.)		.0005 (5.0)	.0005 (5.0)
Nitrogen Surface Area, m <sup>2</sup> /g	D-6556	7-12	7-12
DBP cm <sup>3</sup> /100g	D-2414	44 max	44 max
Ash Content % max	D-1506	0.2	0.2
pH	D-1512	9-11	9-11
Toluene Extract % max		0.5	0.5
Heat Loss % max	D-1509	0.1	0.1
Fines Content (as shipped) % max	D-1508	8.0	—
Pellet Hardness grams (14 x 18 mesh)	D-5230		
average max.		30	—
high (average of 3 highest) max		50	—

\*Tests are performed generally in accordance with ASTM.

# typical applications



## TIRE GRADES

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- N120** Excellent performance in a wide range of tread compounds from passenger to truck tires and retread applications.
- N234** Truck and high performance tread compound. Premium precure tread compounds.
- LH30** Continental Carbon Company exclusive: Ultra premium passenger tire tread compounds that require N339 type properties with lower hysteresis and rolling resistance while maintaining treadwear resistance.
- N326** Industry choice for steel belt skims.
- N330** Applications include treads, filler, sidewall and curing bladders.
- N339** Premium passenger tire tread compound.
- N343** Versatile black for passenger tire tread compounds.
- N351** Economical, low rolling resistance carbon black for passenger tire tread applications.
- N550** Carcass and innerliner carbon black.
- N650** Carcass and innerliner carbon black.
- N660** Carcass and innerliner carbon black.

## MECHANICAL RUBBER GRADES

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- N326** Motor mounts and applications requiring superior cut and tear resistance.
- N330** Motor mounts, dock fenders and applications requiring higher reinforcement and abrasion resistance.
- N339** Solid tires, body mounts and elastomeric roofing.
- N351** Motor mounts, shock absorber bushings, solid tires and conveyor belts.
- N550** Medium abrasion resistance. Good dimensional stability for extruded profiles, hoses, belts and brake parts.
- N550-6** Low PNA N550 developed for pharmaceutical applications.
- N650** Medium reinforcing. Good dimensional stability for extruded profiles. Applications include elastomeric roofing, hose, o-rings, innertubes, tire valves and automotive weatherstrip.
- N660** Medium reinforcing for innertubes, cable insulation, body mounts.
- N683** Higher structure version of N650. Good dimensional stability in extruded profiles.
- N762** Semi reinforcing, high loading capacity, low hysteresis. Used in hose, molded goods and solutions.
- N774** Semi reinforcing, high loading capacity, low hysteresis. Used in belts, hoses, molded goods, footwear and o-rings.
- N774-6** Low PNA N774 developed for pharmaceutical applications.

