

BKT Carbon ASTM & Clean Grades

Properties and Applications





BKT CarbonHard Grades

Type	ASTM Description	Particle Size (nm)	Iodine Number (g/kg)	OAN (cc/100g)	COAN (cc/100g)	NSA (m²/kg)	STSA (m²/kg)	Tint Strength (%)	Major Properties	Major Applicatuions
Super Abrasion Furnace (SAF)	N110	15-22	145	113	97	127	115	123	High surface area provides High Tensile, Elongation, Tear Strength & abrasion Resistance.	Off the road Tire tread for improved Tensile strength, Cut properties, Chip chunk resistance
	N115		160	113	97	137	124	132		
	N134		142	127	103	143	137	131	High surface area and Structure provides High Reinforcement. Easy	Tire Tread for improved Tread stiffness, Mileage and Fuel economy
	N121		121	132	111	122	114	119	Dispersion & processing. Improved tread wear.	
Intermediate Super Abrasion Furnace (ISAF)	N220	23-28	121	114	98	114	106	116	High reinforcement, Provides high tensile & EB. Good processing, High abrasion resistance	Truck Bus radial, LCV, Passenger tread, Retreads, Conveyor belts. Mining equipment rubber components
	N234		120	125	102	119	112	123	High Structure and Tint strength, Provides high Reinforcement and Stiffness	Passenger Radial Tread, Retreads, Conveyor belts, Semiconductive components.
	N299		108	124	104	104	97	113	Low surface area High structure carbon black provides Low heat build up, High stiffness	Passenger Radial Tread, Retreads, Conveyor belts for improved Rolling resistance and Abrasion resistance
High Abrasion Furnace (HAF)	N330	28-35	82	102	88	78	75	104	Provides Medium reinforcement, Easy dispersion & processing, Medium abrasion resistance	Bias Truck, LCV, Passenger Tread, Base, SW, Conveyor belt, Retreads, MRG components, Tubes, Rubber Sheets
	N326		82	72	68	78	76	111	Low Structure, Provides Medium- High Reinforcement, Improved tensile, EB & Tear properties.	Key Radial Tire components, OTR tread, Gaskets, MRG components
	N339		90	120	99	91	88	111	surface appearance, Improved	Passenger Radial Tire Treads, Motorcycle Tire Tread/ SW, Retreads, Conveyor belt, MRG components
	N347		90	124	99	85	83	105		
	N375		90	114	96	93	91	114		





BKT CarbonSoft Grades

Туре	ASTM Description	Particle Size (nm)	Iodine Number (g/kg)	OAN (cc/100g)	COAN (cc/100g)	NSA (m²/kg)	STSA (m²/kg)	Tint Strength (%)	Major Properties	Major Applications
Fast Extrusion Furnace (FEF)	N550	38-45	43	121	85	40	39		Provides Medium reinforcement, High green strength, Smooth surface, High modulus, Hardness,	Cable jackets, Extruded profiles, MRG components, Hose, Seals, Tire inner liner.
General Purpose	N650	50-70	36	122	84	36	35		Provides Medium reinforcement, high structure, Smooth processing & finish, High hardness and Modulus	Cable jackets, Extruded profiles, MRG components,
Furnace (GPF)	(GPF) N660 36 90 74 35 34	Provides Medium to low Reinforcement, Easy processing, Low heat build up	Bias Tire carcass, Radial Tire inner liner, Automotive Tube, Hose, MRG components,							
	N762	70-100	27	65	59	29	28		Provides Low reinforcement, High EB and Low Compression set, Low heat build-up, Improved Dynamic	Rubber Sheet, Mats, Hose, Gaskets and MRG components
Semi	N772		30	65	59	32	30			
Reinforcing Furnace (SRF)	N774		29	72	63	30	29		flexing	
	N765		31	115	81	34	32		Provides Medium to low Reinforcement, Easy processing, High green strength, Low heat build- up, superior surface finish	Extruded profiles, Rubber Sheet, Mats, and MRG components.







BKT CarbonClean Grades

Grades	Major Properties	Major Applications		
N220 LG		Auto components, Tire Curing Bladder		
N330 LG	Low Grit (LG) grades are manufactured via a Special process, resulting in exceptional	Auto-components, tubes, Vibration isolators Key Radial tire components, vibration isolators, gaskets, MRG components Auto components, Class A surface weather strips, Hose, seals Auto components, tire innerliner, tube, high pressure hose		
N326 LG	cleanliness of the grades and excellent dispersibility in rubber compounds. These grades require much less screen changes			
N550 LG	during compound extrusion, resulting in improved production efficiency. These			
N660 LG	grades impart superior surface finish as compared to corresponding ASTM grades.			
N650 LG	LG grades are known for their improved Reinforcement, Air/gas impermeability, and Superior Dynamic performance.	MRG components requiring high green strength, extruded profiles , high pressure hose		
N772 LG		Injection molded parts, Auto components, Hose		



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