

SPECIALTY CARBON BLACKS

GENERAL SELECTION GUIDE



COATINGS

Application	Primary Performance Benefit	Product 1	Product 2	Product 3
Automotive exterior - water-based	High jetness	EMPEROR® 2000	EMPEROR 1800	MONARCH® 1300
Automotive exterior - solvent-based	High jetness	EMPEROR 1600		MONARCH 1300
Energy Cure (UV)	Good jetness, low photoinitiator, ease of curing, low viscosity	MOGUL® E	REGAL® 400R	REGAL 250R
Conductive	Conductivity performance	VULCAN® XC72R	VULCAN XC605	—
Powder coatings	Medium color and dispersibility		BLACK PEARLS® 800	REGAL 660
Low viscosity - Industrial and General Purpose	Black color with low viscosity	MOGUL® L	REGAL 400R	
Tinting	Blue undertone and tinting strength	MONARCH 280	MONARCH 120	MOGUL L

INKS

Application	Primary Performance Benefit	Product 1	Product 2	Product 3
UV Cured Printing Inks (UV inks, flexographic inks)	Low cure energy, viscosity stability, blue tone	MOGUL E	REGAL 250R	REGAL 400R
Web Offset Heatset/Sheet-fed Offset (magazines - coated)	High gloss, good jetness	REGAL 350A120/ REGAL 250R	ELFTEX 410/415	REGAL 400/400R
Web Offset Coldset (newspapers - uncoated)	Lower structure, rub-off resistance	BLACK PEARLS 430	REGAL 99I/99R	ELFTEX 460
Publication Flexographic (Aqueous Newsink)	Good coverage and high optical density	BLACK PEARLS 450A111	BLACK PEARLS 430	BLACK PEARLS 800
Publication Gravure	High jetness, gloss and blue tone	BLACK PEARLS 450A111	REGAL 330R	MONARCH 280
Flexo - Packaging	Gloss and jetness	BLACK PEARLS 800	BLACK PEARLS 450A111	REGAL 400

BATTERIES

Application	Primary Performance Benefit	Product 1	Product 2	Product 3
Lead Acid Batteries	Flooded Lead Acid Batteries	PBX® 135	PBX 55	PBX 09
	Valve Regulated Lead Acid (VRLA) Batteries	PBX 51	PBX 09	PBX 135
Lithium Ion Batteries	High Power and Energy Additives	LITX® 200	LITX 50	—
	Multi-Purpose Additives	LITX 50	LITX 200	—

CABOT SPECIALTY CARBON BLACKS GENERAL SELECTION GUIDE

PLASTICS

Application	Primary Performance Benefit	Product 1	Product 2	Product 3
Plastic Film and Sheet (packaging, lamination, general purpose)	Color/opacity, surface smoothness, UV/weatherability, dispersibility	VULCAN 9A32	BLACK PEARLS 4040	BLACK PEARLS 120
Agricultural Film and Pipe (irrigation pipe, mulch and silage film)	UV/weatherability, microdispersion, mechanical strength	Vulcan 9A32	BLACK PEARLS 4040	BLACK PEARLS 120
Geosynthetics (geogrids, geotextiles, geomembranes)	UV/Weatherability, color/opacity, dispersibility	VULCAN 9A32	BLACK PEARLS 4040	BLACK PEARLS 280
Plastic Pressure Pipe	UV/weatherability, physical (e.g. ash) and chemical (e.g. sulfur) cleanliness, dispersibility	ELFTEX P100	BLACK PEARLS 280	—
Wire and Cable - high voltage, semiconductive	Conductivity, surface smoothness, physical (e.g. ash) and chemical (e.g. sulfur) cleanliness	VULCAN XC500	—	—
Wire and Cable - medium voltage, semiconductive		VULCAN XC500	VULCAN XC68	VULCAN XC200
Wire and Cable - UV jacketing	UV/weatherability, color, dispersibility	VULCAN 9A32	ELFTEX 570	BLACK PEARLS 4040
Plastic Molded Parts (consumer and industrial)	Color, surface smoothness, dispersibility	BLACK PEARLS 800	BLACK PEARLS 450A111	BLACK PEARLS 120
Food Contact Applications	PAH levels, physical (e.g. ash) and chemical (e.g. sulfur) cleanliness, color/opacity	BLACK PEARLS 4350	BLACK PEARLS 4750	—
Automotive Parts - Interior & Exterior	Color, UV/weatherability, surface smoothness, mechanical strength, dispersibility	BLACK PEARLS 880	BLACK PEARLS 800	BLACK PEARLS 4840
Automotive Parts - Under the Hood		BLACK PEARLS 800	VULCAN 9A32	ELFTEX 570
Automotive Parts - Conductive/ESD	Conductivity	VULCAN XC72	VULCAN XC605	—
Synthetic Fiber and Textile products (apparel, carpets, technical)	Physical cleanliness (e.g. ash), color, dispersibility, mechanical strength	BLACK PEARLS 5560	BLACK PEARLS 4560i	BLACK PEARLS 3560
Conductive and ESD (E&E, Safety, Automotive)	Conductivity, mechanical strength, dispersibility, chemical cleanliness (e.g. sulfur)	VULCAN XCmax	VULCAN XC72	VULCAN XC605