# 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 High jetness **EMPEROR 1600** MONARCH 1300 Automotive exterior - solvent-based MOGUL<sup>®</sup> E REGAL<sup>®</sup> 400R Energy Cure (UV) Good jetness, low photoinitiator, ease of curing, low viscosity REGAL 250R Conductive Conductivity performance VULCAN<sup>®</sup> XC72R VULCAN XC605 Powder coatings Medium color and dispersibility BLACK PEARLS® 800 REGAL 660 Low viscosity - Industrial and General Purpose MOGUL<sup>®</sup> L **REGAL 400R** Black color with low viscosity MOGUL L Blue undertone and tinting strength MONARCH 280 MONARCH 120 Tinting

#### 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 REGAL 350A120/ High gloss, good jetness ELFTEX 410/415 **REGAL 400/400R** REGAL 250R (magazines - coated) **BLACK PEARLS 430** Web Offset Coldset (newspapers - uncoated) Lower structure, rub-off resistance **REGAL 99I/99R** ELFTEX 460 BLACK PEARLS Publication Flexographic (Aqueous Newsink) Good coverage and high optical density **BLACK PEARLS 430 BLACK PEARLS 800** 450A111 BLACK PEARLS Publication Gravure High jetness, gloss and blue tone REGAL 330R MONARCH 280 450A111 BLACK PEARLS Flexo - Packaging Gloss and jetness **BLACK PEARLS 800** REGAL 400 450A111

### BATTERIES

Application		Primary Performance Benefit	Product 1	Product 2	Product 3		
Lead Acid Batteries	Flooded Lead Acid Batteries	Charge acceptance and cycle life	PBX <sup>®</sup> 135	PBX 55	PBX 09		
	Valve Regulated Lead Acid (VRLA) Batteries	Charge acceptance and cycle life	PBX 51	PBX 09	PBX 135		
Lithium Ion Batteries	High Power and Energy Additives	Energy, power and conductivity	LITX <sup>®</sup> 200	LITX 50	-		
	Multi-Purpose Additives	Performance and cost requirements	LITX 50	LITX 200	-		

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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			



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