

ABOUT PCBL LIMITED

PCBL, a part of RP-Sanjiv Goenka Group, has been playing a pioneering role in the performance materials and specialty chemicals segment, with a current production capacity of 6,86,000 MT and generating 98 MW of green power. Today, we are the largest carbon black manufacturer in India and a strong global player with a significant customer base in 50+ countries.

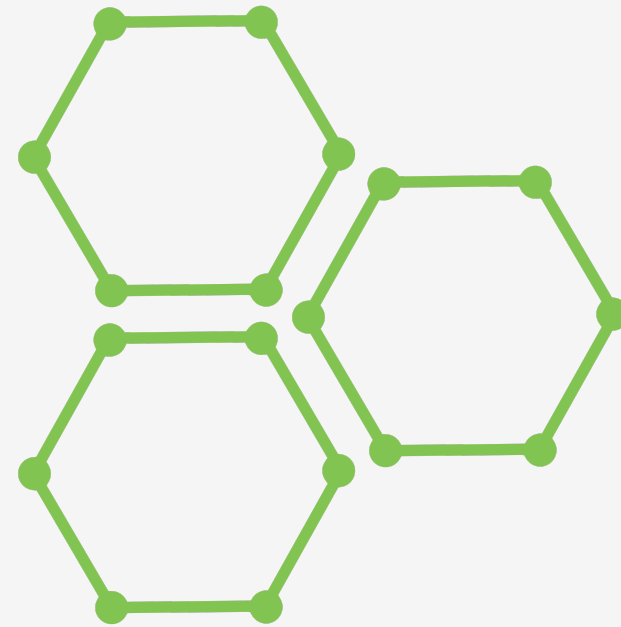
We are driven by our Vision of providing cutting edge solutions to our Partners and offer a robust product portfolio to meet specific requirements across industries such as rubber, plastics, inks, coatings, conductive, etc. Additionally, our service and strong technical support ensures long-term relationships with our customers.



RESEARCH & INNOVATION

At PCBL, research and innovation represent most potent platform for sustainable growth. Over the last few years, we have deepened our research commitment comprising forward looking investments in infrastructure, people and processes resulting in empowerment of the Company with proven capabilities in product application, process efficiency and product customisation.

The Sushila Goenka Research and Development Centre (Palej, Gujarat, India) and the Sushila Goenka Innovation Centre (Ghislenghien, Belgium) focus on market driven innovation to expand and augment our product portfolio, by adopting novel products and technology leading to competitive advantages.



PCBL Limited

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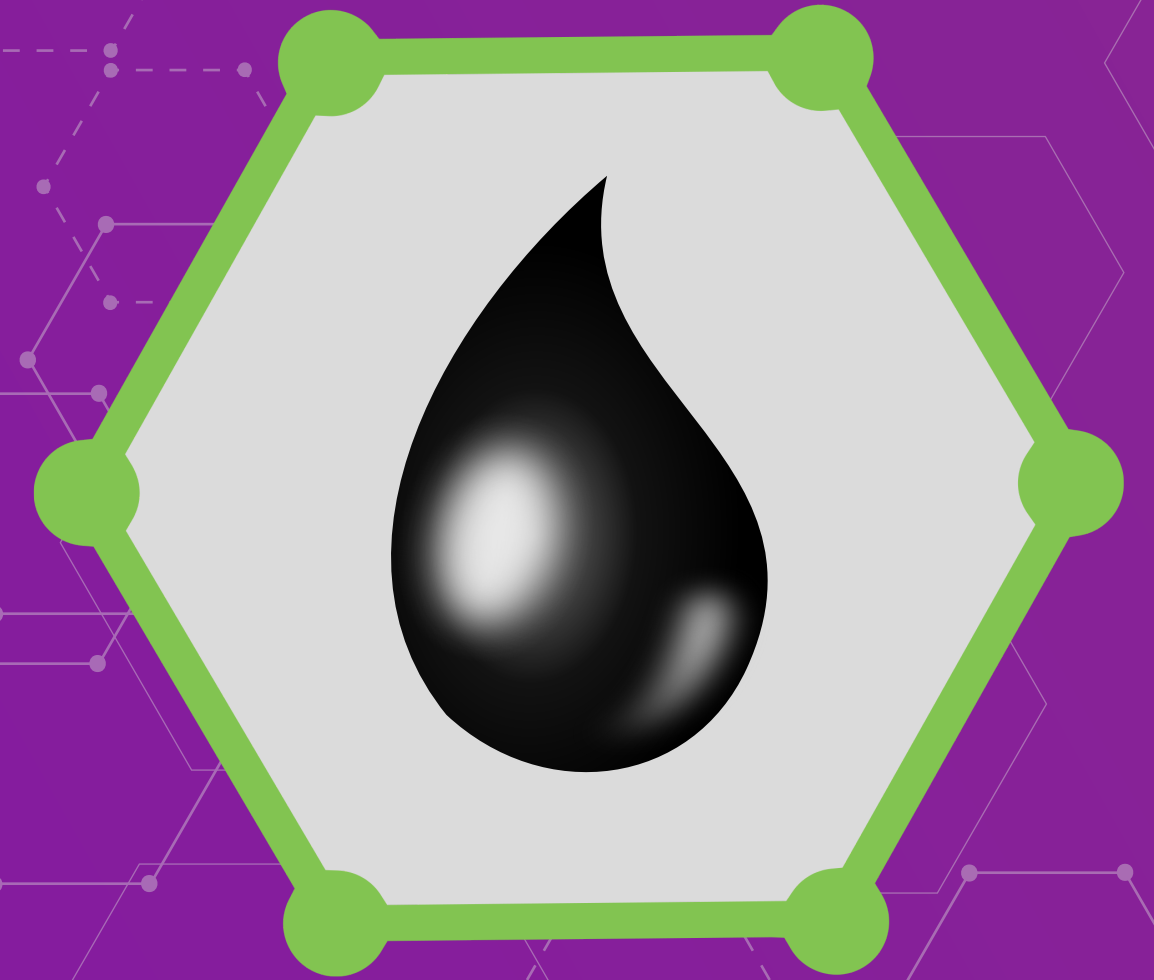


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August, 2023

RP - Sanjiv Goenka
Group
Growing Legacies

PCBL



N_μTONE[®]
ROYALE BLACK[®]



NuTone series of grades has been developed to provide excellent colour, gloss, viscosity, stability and good dispersion.

Designed to suit variety of applications such as offset inks, liquid inks, inkjet inks, coatings, adhesives and sealants.

Morphology of NuTone is optimised to improve the performance for the end user.

RELATIONSHIP WITH PROPERTIES

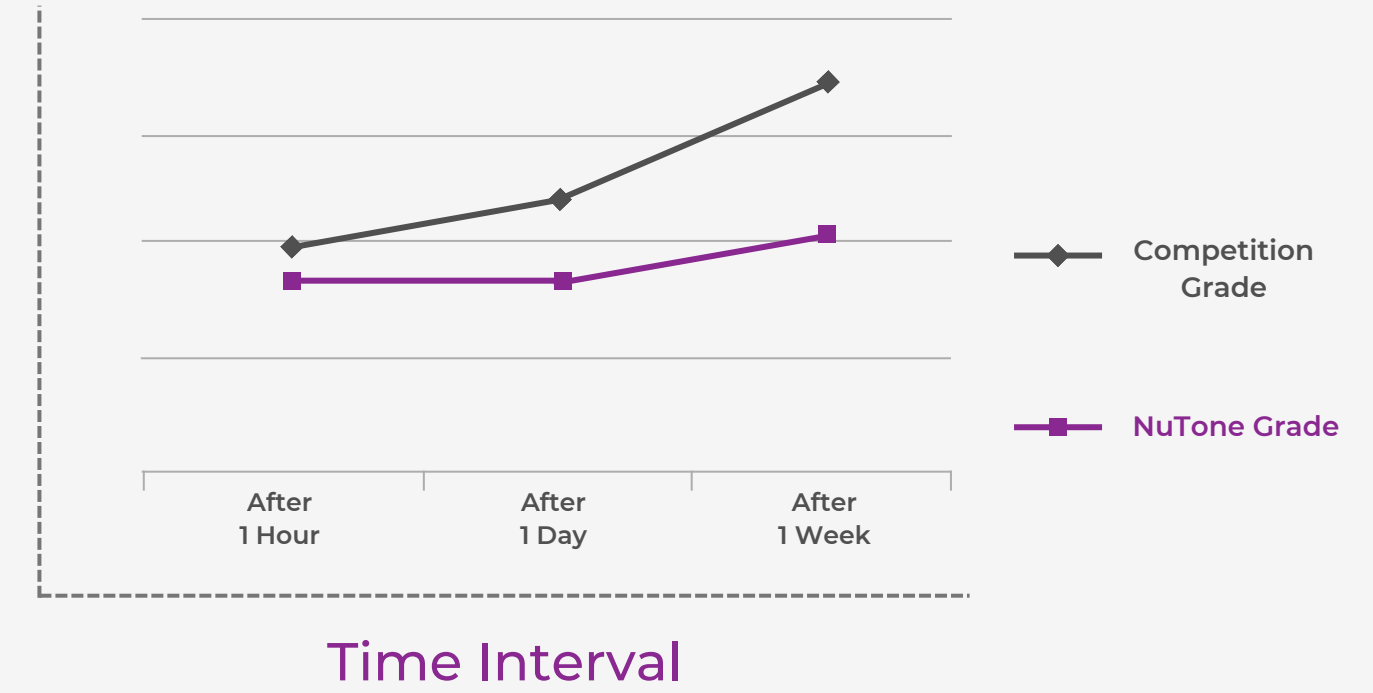
PARTICLE SIZE		
LARGE (PARTICLE SIZE)	PROPERTIES	SMALL (PARTICLE SIZE)
Lighter	Masstone	Darker
Weaker	Tinting Strength	Stronger
Blue	Tinting Undertone	Brown
Easier	Pigment Dispersibility	Harder
Lower	UV Protection	Higher

STRUCTURE		
HIGH (STRUCTURE)	PROPERTIES	LOW (STRUCTURE)
Lower	Pigment Loading	Higher
Easier	Pigment Dispersibility	Harder
Lower	Gloss	Higher
Slightly Weaker	Colour	Slightly Stronger
Blue	Tinting Undertone	Brown



Specialty blacks to provide excellent colour, gloss and superior dispersion.

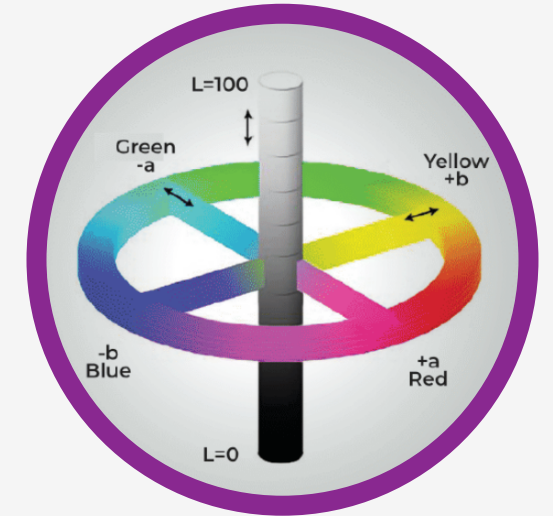
Viscosity



COLOUR PERFORMANCE

Relative colour of two samples can be described by their positions along L, a, b axes.

In masstone applications, the level of blackness (jetness) and undertone produced by carbon black are affected by several parameters related to carbon black properties and dispersion quality, both of which influence light absorption (jetness) and scattering (undertone) characteristics.



PROPERTIES & APPLICATIONS	Grade	NSA	OAN	Tint Strength	pH Values	Publication Sheetfed/ Letterpress	Heat Set	Cold Set	Liquid Inks (Flexo/Gravure) Solvent Based	Liquid Inks (Flexo/Gravure) Water Based	Screen Printing	UV Curing Inks	Aqueous Inkjet Inks	Pigment Paste	Toners	Industrial Coatings	Powder Coatings	PVC Coatings	Coil Coatings	Food Coatings	Adhesives & Sealants	
	ASTM No.	D6556	D2414	D3265	D1512	Inks										Coatings						
	Unit	m ² /g	ml/100g	Tint Unit	pH Unit																	
NuTone 302#	109	99	105	8																		
NuTone 303	80	68	115	8	●	●	●		●		●			●				●				
NuTone 305	118	112	112	8											●	●	●					●
NuTone 306	82	105	102	8				●	●					●								●
NuTone 310	63	45	102	8	●	●		●	●		●			●								
NuTone 373	135	56	130	8				●	●		●		●	●				●				
NuTone 313	122	100	120	8										●		●		●				
NuTone 324	75	72	111	8				●						●				●				
NuTone 36*	104	95	125	3	●							●				●	●					
NuTone 37*	95	60	126	3	●											●	●					
NuTone 98*	34	95	65	3												●				●		
NuTone 21*	69	45	102	3				●				●										
NuTone 390	52	45	95	8	●	●		●	●					●								

● Recommended ● Can be used *Treated Black # US FDA Compliant

