

PLASTICS

PLASTEXA

Series

PLASTEXA 117

PLASTEXA 117 is a specialty carbon black combining good colour with effective UV protection and weathering performance for durable plastics. Because finer particles carry higher surface area, they absorb more UV light, screening the polymer and extending the service life of outdoor and long-life components.

PLASTEXA 117 disperses well in polyolefins and is used in masterbatch, pipe, profile, film, geomembrane and cable where weatherability and consistent colour are essential. It balances cost, processability and protection, typically at 1-2.5% in the final part.

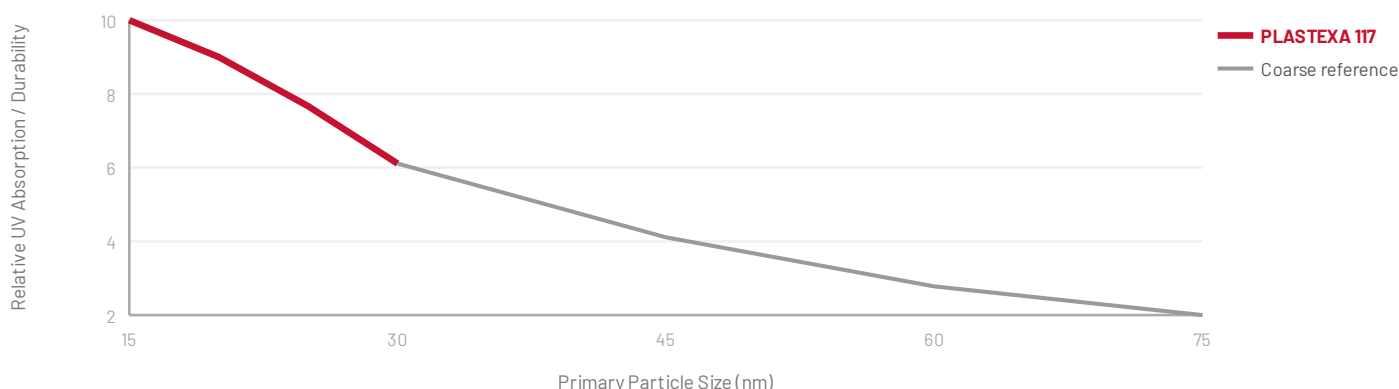
KEY APPLICATIONS

- UV-stabilised masterbatch
- HDPE pipe & profile
- Agricultural & geomembrane film
- Wire & cable compounds
- Long-life outdoor components

PERFORMANCE FEATURES

- Good colour with UV protection
- Effective weathering performance
- Balanced dispersibility
- Suited to pipe, film & cable
- Reliable in polyolefins
- Cost-effective at 1-2.5% loading

UV Protection vs Particle Size (weathering)



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	-	Bead
DBP Absorption No.	cc/100g	102 ± 6
BET Surface Area	m ² /g	134 ± 7
PH Value		9.0 ± 1
Tint Strength	%	117 ± 6
Average Original Particle Size	nm	20 ± 2
Volatile Content	%	≥ 1.0
Ash Content	%	≤ 0.5
Sieve Residue 325M	ppm	≤ 10

APPLICATION FIELD

Application	Recommended Dosage
UV-Stabilised Masterbatch	25 - 45%
HDPE Pipe & Profile	2 - 2.5%
Long-Life Outdoor Components	1.5 - 2.5%
Cable Compounds	2 - 2.5%
Geomembrane Film	2 - 2.5%
Moulded Parts	1 - 2.5%

■ Recommended dosage (% in final part or as masterbatch) can vary with resin, process and dispersion.
Physical Form: Bead | Packaging: 20 kg paper or PE bag

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
 West Yellow Building
 Opp. Hotel Grand Dhillon, Behind IDBI
 Bank Bhilai, Chhattisgarh - 490020, India

Notice and Disclaimer

The data and information provided herein are based on our current knowledge and experience and are believed to be accurate. However, ISTAR MATERIALS cannot guarantee that similar results will be obtained by others as processing conditions and formulations may vary. This information is provided for guidance purposes only and does not constitute a warranty or guarantee of performance.

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