

AROVANCE

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Adhesives & Sealants Series

AROVANCE 27

AROVANCE 27 is a high structure specialty carbon black engineered for adhesive and sealant formulations that must hold shape, build thixotropy and reinforce the applied bead. High structure (DBP 108 to 120 cc/100g) combined with high surface area (105 to 119 m²/g) forms a strong particle network in the wet state, giving sag resistance on vertical joints and a firm, stable bead profile.

With fine primary particle size (24 to 28 nm) and strong tinting strength (109 to 121%), the grade pairs rheology control with deep colour in a single product. AROVANCE 27 is suitable for structural adhesives in industrial assembly, polyurethane and hybrid construction sealants, and thixotropic bonding pastes where both body and blackness are specified.

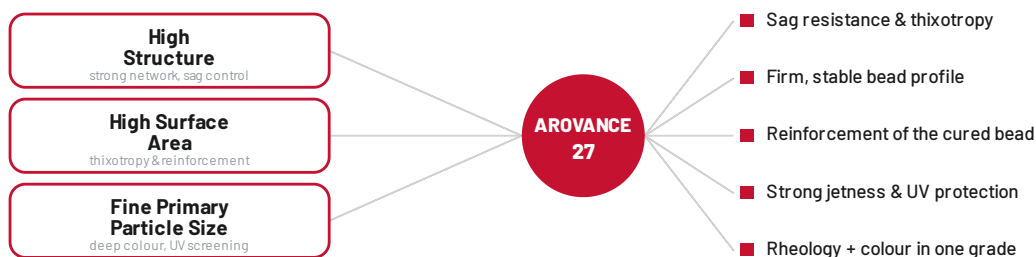
KEY APPLICATIONS

- Structural adhesives for industrial assembly
- PU & hybrid construction sealants (vertical joints)
- Thixotropic bonding pastes & panel adhesives
- Sealants requiring firm bead profile & sag control
- Reinforced gasketing & sealing compounds
- Pigmented adhesive systems needing colour + body

PERFORMANCE FEATURES

- High structure: DBP 108 to 120 cc/100g
- High surface area: 105 to 119 m²/g
- Strong sag resistance & thixotropy build
- Contributes to strength of the cured bead
- Strong jetness: tint 109 to 121%
- Stable particle network in the wet state

Defining Properties → Adhesive & Sealant Benefits



TYPICAL VALUE

Test Items	Unit	Standard
Physical Form	–	Powder
DBP Absorption Number	cc/100g	114 ± 6
BET Surface Area	m ² /g	112 ± 7
Tint Strength	%	115 ± 6
Average Primary Particle Size	nm	26 ± 2
Volatile Content	%	≥ 1.0
Ash Content	%	≤ 0.5
PH Value		8.0 ± 1.0

APPLICATION FIELD

Application	Recommended Dosage
Structural adhesives (reinforcement + colour)	1.0 – 3.0 %
PU / hybrid sealants, sag control duty	1.5 – 4.0 %
Thixotropic bonding & panel pastes	2.0 – 4.0 %
General pigmentation of adhesives	0.5 – 2.0 %
Black paste concentrates	5 – 15 %

■ Recommended dosages are guideline starting ranges on total formulation weight and vary with binder system, filler load and processing conditions. Evaluate in the specific formulation before scale-up.

Physical Form: Powder | Packaging: on request | CAS No. 1333-86-4 | EINECS No. 215-609-9

ISTAR MATERIALS

Ground Floor, Plot 1/3, Priyadarshini Parisar
West Yellow Building
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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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