

Grace Davison Specialty Catalysts & Process Technologies



SYLOBLOC[®] 45B

New Antiblocking Aid Offers Improved Dispersibility and Handling

Grace Davison introduces SYLOBLOC[®] 45B antiblocking aid, a synthetic silica antiblocking additive that provides the performance necessary for today's high throughput compounding facilities. This new product has all of the benefits of Grace's industry standard, SYLOBLOC[®] 45 silica. In addition, it has been modified to improve dispersibility and handling, resulting in more uniform masterbatches as well as excellent, and consistent, film quality.

Figure 1: Typical Properties

	SYLOBLOC [®] 45B Silica	SYLOBLOC [®] 45 Silica
Average Particle Size, μ	5.0	5.0
Wet Screen Residue, > 25 μ	< 0.01	< 0.01
SiO ₂ , wt%	> 99.0	> 99.0
Moisture, wt%	2.0	2.0
Pore Volume, ml/g	0.6	1.0

SYLOBLOC[®] 45B antiblocking aid matches the same high standards as our other SYLOBLOC[®] products. It is a high purity synthetic silica, and has a well-defined particle size distribution similar to SYLOBLOC[®] 45 antiblocking aid (Figure 1).

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SYLOBLOC® 45B Silica – Improved Dispersibility and Handling

SYLOBLOC® 45B antiblocking aid, by the nature of its porosity, achieves an optimal balance between dispersion and antiblocking, while maintaining excellent optical properties as well. Film producers and masterbatchers who are suffering from dispersibility problems can now benefit from the lower pore volume of SYLOBLOC® 45B silica that delivers better dispersion (Figure 2).

The total value of the SYLOBLOC® 45B antiblocking aid is optimized at high silica concentrations in masterbatch formulations (Figure 3), and the dispersion impact is ideal for high silica concentration applications. The lower pore volume also results in a slightly higher bulk density. This provides the benefit of easier handling during application due to reduced dusting and more consistent dosing of the additive. The benefits of SYLOBLOC® 45B antiblocking aid extend into economics as well. By increasing the level of silica in a masterbatch, and thereby decreasing the level of carrier resin, our customers can realize cost savings in materials, shipping and operations.

Figure 2: Effect of Pore Volume on Film Properties

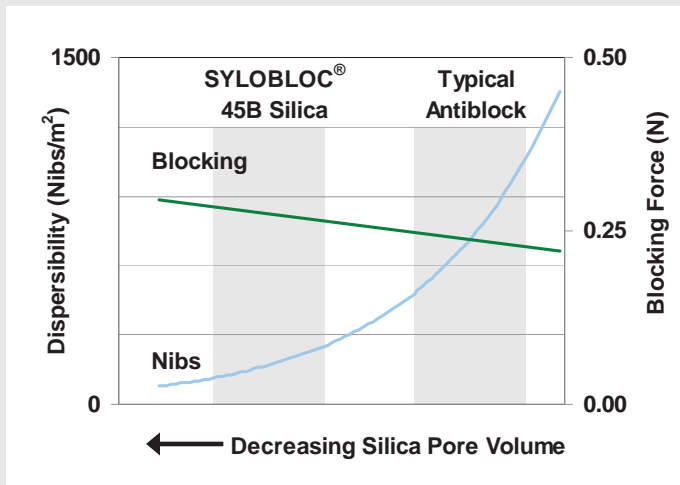
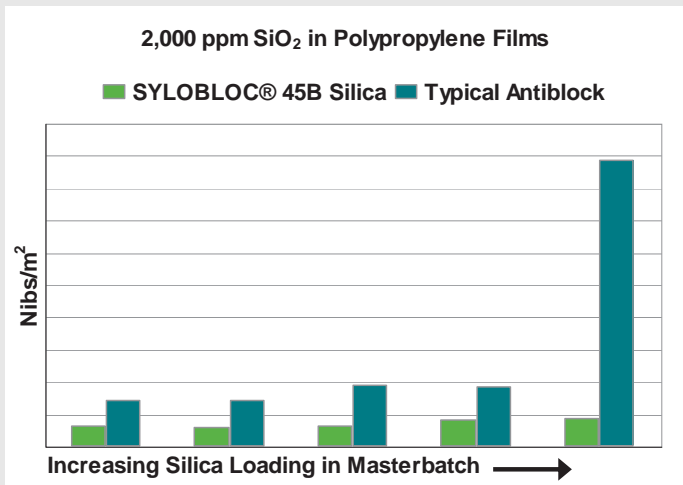


Figure 3: Impact of Silica Loading on Dispersion



Grace Davison is a global leader in silica materials, science and technology. Grace Davison Specialty Catalysts & Process Technologies provides innovative catalyst-based solutions and processing aids for polymers, petrochemical and renewable industries. Please contact your local Grace representative if you would like more information on SYLOBLOC® 45B antiblocking aid.

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