

Product Information

VESTOSINT® 2050 NC

POLYAMIDE 12 FINE POWDER ADDITIVE FOR COATING FORMULATIONS

VESTOSINT® fine powders are high-performance additives made of polyamide 12. They are available in particle sizes ranging from 7 to 64 µm (d_{50}). The exceptional performance attributes of VESTOSINT® arise from the unique dissolution and precipitation production process and its base polymer. Polyamide 12 exhibits excellent abrasion resistance, toughness, impact properties, low water absorption and simultaneously resistance to various chemicals such as oils, fuels, solvents, and salt solutions. Due to their unique properties VESTOSINT® fine powders are used in markets and applications, such as, paints and coatings (can coating, coil coating, wood coating, rubber coating), graphic arts, lubricants and metal working, flooring, composites, and ceramics. VESTOSINT® is used in lacquer and paint formulations, in particular coil coating, for more than 30 years to adapt elasticity, abrasion resistance, matting, structuring, friction, and dirt pickup. The different particle size distributions of VESTOSINT® fine powders can be used individually or in mixtures, allowing customers to easily influence their formulation properties. The functional acid end groups of VESTOSINT® polyamide particles allow them to be incorporated into polymer matrices to enable core performance benefits. VESTOSINT® 2050 NC is specifically designed for applications that involve food or drinking water contact.

The values presented are typical or average values, they do not constitute a specification.

FOR FURTHER INFORMATION PLEASE CONTACT US AT EVONIK-HP@EVONIK.COM OR VISIT OUR PRODUCT AT WWW.VESTOSINT.COM

Thermal properties

Melting temperature

dry / cond

180 / *

Unit

°C

Test Standard

ISO 11357-1/-3

Physical properties

Density

dry / cond

1020 / -

Unit

kg/m³

Test Standard

ISO 1183

Water absorption

1.9 / *

%

Sim. to ISO 62

Humidity absorption

0.5^[1] / *

%

Sim. to ISO 62

1: 23 °C / 96 % r.H. = 1,3 %

Powder properties

Bulk density, powder

Value

210

Unit

g/l

Test Standard

EN ISO 60

Particle size, D(50)

7

µm

ISO 13320, DIN ISO 8130-13

Characteristics

Key Features, Delivery form

Powder

Key Features, Conformity

Food contact

Key Features, Additives

Unfilled

Special Characteristics

Crosslinkable

Features

Low coefficient of friction, Matting , Structuring , Texturing , Increased elasticity , Reduced dirt pick-up , Increased abrasion resistance , Low sedimentation, Low increase in viscosity , Improves mar resistance

Regulatory

Food contact 10/2011/EC, Food contact FDA 21 CFR, Water contact DIN EN 16421

Color

Natural color

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