

Product Information

VESTOSINT® 2179 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 (d₅₀). 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® 2179 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	dry / cond	Unit	Test Standard
Melting temperature	180 / *	°C	ISO 11357-1/-3

Physical properties	dry / cond	Unit	Test Standard
Density	1020 / -	kg/m ³	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	Value	Unit	Test Standard
Bulk density, powder	260	g/l	EN ISO 60
Particle size, D(50)	10	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, Low smoke, 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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