PEBAX®

TECHNICAL DATA SHEET

PEBAX® ES NAT

POLYETHER BLOCK AMIDE POWDER

PEBAX® ES NAT Spray Powder. PEBAX® fine powders are specialty Poly Ether Block Amide powders. PEBAX® ES NAT is designed for coating metal parts, where high friction, noise reduction or very high flexibility are required. It can be applied by conventional electrostatic spraying process. Please consult Arkema literature for application method and recommendations.

TYPE

PEBA

POTENTIAL APPLICATIONS

- Light vehicule

DELIVERY FORM

- Powder

TRANSFORMATION PROCESSES

- Coating
- Electrostatic Spray
- Fluidized Bed Dipping

MECHANICAL PROPERTIES

PROPERTIES	TYPICAL VALUE*	UNIT	TEST STANDARD
Hardness, shore D, 23°C (73°F)	- / 50		ISO 868
Persoz hardness, 23°C (73°F)	- / 141		ISO 1522
Coating impact, 23°C (73°F)	- / 0.89	J	ASTM G14
Abrasion resistance, Wheel CS 17, load 1 kg, 1000 cycles	- / 44	mg	ISO 9352

* DRY / COND
DRY: Dry As Molded (DAM) if pellet / Dry if powder.
COND: Conditionned.

THERMAL PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Vicat softening temperature, 50N at 50°C/h	109	°C	ISO 306
Melting temperature, 10°C/min	148	°C	ISO 11357-1/-3

OTHER PROPERTIES

PROPERTIES	TYPICAL VALUE	UNIT	TEST STANDARD
Covering efficiency (200 µm)	0.24	kg/m²	Internal Arkema
Salt spray test	Good adhesion after 1000 hours		ISO 9227
Coating density, 20°C (68°F)	1.16	g/cm³	ISO 1183-1
Apparent density, non compacted	0.46	g/cm³	ISO 1068
Apparent density, compacted	0.54	g/cm³	ISO 1068
Water absorption, after 24h at 23°C (73°F) / Water	≤ 0.35	%	ISO 62

PEBAX® ES NAT

SHELF LIFE

Two years from the date of delivery, when stored properly (sealed bags, appropriate moisture, UV protection and temperature). For any use above this limit, please refer to our technical services.

REGIONAL AVAILABILITY

World

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