

TECHNICAL DATA SHEET

PEBAX® RNEW® 40F19 SP 03

POLYETHER BLOCK AMIDE PELLET

PEBAX® RNEW 40F19 SP 03 is a thermoplastic elastomer made of flexible polyether and rigid polyamide, based on renewable resources.

TYPE

PEBA

MAIN APPLICATIONS

- Footwear - Insole/Midsole/Foam
- Industry - Distribution

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

ADDITIVES

- Heat Stabilized
- Light Stabilized

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melt volume flow rate (MVR) (220°C/2.16 Kg)	9	cm³/10min	ISO 1133

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	UNIT	TEST STANDARD
Charpy notched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eA
Charpy notched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	No Break / No Break		ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	No Break / No Break		ISO 179 1eU
Tensile modulus, 23°C (73°F), 1 mm/min	95 / 92	MPa	ISO 527-1/-2
Stress at 50% strain, 23°C (73°F), 50 mm/min	9 / 9	MPa	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	>28 / >28	MPa	ISO 527-1/-2
Nominal strain at break, 23°C (73°F), 50 mm/min	>700 / >700	%	ISO 527-1/-2
Hardness, Shore D, 15 s	- / 38		ISO 868

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

THERMAL PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Melting temperature, 10°C/min	146	°C	ISO 11357-1/-3

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OTHER PROPERTIES

PROPERTIES	VALUE	UNIT	TEST STANDARD
Bio-based carbon content, Measured	46	%	ASTM D6866
Specific gravity, 23°C (73°F)	1.026	g/cm ³	ISO 1183-1

PACKAGING

Available packaging:

- 25 kg / 55 lb bags

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.

PROCESSING CONDITIONS:

- Typical melt temperature (Min / Recommended / Max) - Injection Molding: 210°C / 230°C / 250°C (410°F / 445°F / 480°F)
- Typical mold temperature - Injection molding: 10-30°C (50-90°F)
- Drying time and temperature: 60-70°C (140-160°F) / 4-8 hours

SPECIAL CHARACTERISTICS

- Bio-based

REGIONAL AVAILABILITY

Asia Pacific, Europe, Latin America and the Caribbean, Middle East, Northern America