

TECHNICAL DATA SHEET

PEBAX[®] CLEAR 800

POLYETHER BLOCK AMIDE PELLETT

PEBAX[®] Clear 800 combines transparency, toughness and stiffness with the unique performance of Pebax[®] thermoplastic elastomer.

DESIGNATION

PEBA

MAIN APPLICATIONS

- Footwear - Outsole/Components
- Frames
- Accessories

DELIVERY FORM

- Pellets

TRANSFORMATION PROCESSES

- Injection Molding

RHEOLOGICAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Shrinkage, Parallel (t+24h) (2mm thick plate, mold at 40°C)	0.7 %	ISO 294-4
Shrinkage, Normal (t+24h) (2mm thick plate, mold at 40°C)	0.7 %	ISO 294-4

MECHANICAL PROPERTIES

PROPERTIES	DRY / COND VALUE*	TEST STANDARD
Flexural modulus, 23°C (73°F)	- / 850 MPa	ISO 178
Tensile modulus, 23°C (73°F), 1 mm/min	- / 900 MPa	ISO 527-1/-2
Yield stress, 23°C (73°F), 50 mm/min	- / 29 MPa	ISO 527-1/-2
Yield strain, 23°C (73°F), 50 mm/min	- / 6 %	ISO 527-1/-2
Stress at break, 23°C (73°F), 50 mm/min	- / 38 MPa	ISO 527-1/-2
Strain at break, 23°C (73°F), 50 mm/min	- / > 200 %	ISO 527-1/-2
Charpy notched impact strength, 23°C (73°F)	- / 40 kJ/m ²	ISO 179 1eA
Charpy notched impact strength, -30°C (-22°F)	- / 22 kJ/m ²	ISO 179 1eA
Charpy unnotched impact strength, 23°C (73°F)	/ No Break kJ/m ²	ISO 179 1eU
Charpy unnotched impact strength, -30°C (-22°F)	/ No Break kJ/m ²	ISO 179 1eU
Hardness, Shore D, Instantaneous	/ 75	ISO 868
Hardness, Shore D, 15 s	- / 69	ISO 868

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

THERMAL PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Melting temperature, 10°C/min	188 °C	ISO 11357-1/-3

PEBAX® CLEAR 800

OTHER PROPERTIES

PROPERTIES	VALUE	TEST STANDARD
Bio-based carbon content	59 %	ASTM D6866
Transmittance (2mm thick plate)	80 %	ISO 13468-1/-2

PACKAGING

This grade is delivered dried in sealed packaging ready to be processed. 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: 270°C / 285°C / 300°C (520°F / 545°F / 570°F)
- Typical mold temperature - Injection molding: 40-80°C (105-175°F)
- Drying time and temperature: 60-70°C (140-160°F) / 4-8 hours

SPECIAL CHARACTERISTICS

- Transparent

REGIONAL AVAILABILITY

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

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