

Technical Data Sheet

Type: TPU aromatic based on bio-polyester.

Features: Fast crystallization rate with excellent extrusionability.

Typical applications: Hot Melt Adhesive

Physical Properties	Value (Metric)	Unit	Test Method
Specific Gravity	1.14	g/cm3	ISO 2781 (ASTM D-792)
Carbon renewable	58 - 60	%	ASTM D6866
Hardness (3 sec)	A/3: 95	Shore A	ISO 868 / ASTM D-2240
Melt Flow Index at 170°C / 2.16 Kg	10 - 30	g/10min	ISO 1133
TMA analysis - Film Inflection Point	120 - 130	°C	ASTM E 2347 (0.05N 10°C / min)
Thermoplasticity	Very high		LZMM-RD01-68-A
Crystallization rate	Very high		LZMM-RD01-12-A

HEALTH AND SAFETY

A safety data sheet of **PEARLBOND™ ECO 590HMS** is available, with all information related to safety. The usual safety practices in the handling of chemicals should be observed, i.e.: good ventilation in the working area, gloves, and protective goggles.

PROCESING CONDITIONS

Recommended condition for drying is 3h at 50°C using a desiccant or vacuum type of dryer. Target dew point should be **-40°C**.

For extrusion trials is advisable that the moisture level of the sample remains below 0.02%.

Recommended Starting Temperature Profile:

	°C
Zone 1	110 - 120
Zone 2	145 – 155
Zone 3	150 - 160
Zone 4	150 – 160
Zone 5	145 - 155
Die Zone	135 - 145

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STORAGE

PEARLBOND™ ECO 590HMS must be stored in a cold environment (<20°C) prior to being processed.

Our **TECHNICAL SERVICE** will answer any inquiries about our product and its applications.

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