

PEARLCOAT® 125H

Thermoplastic Polyurethane Elastomer

PEARLCOAT® 125H is a polyester-based thermoplastic polyurethane, supplied in form of translucent, colourless or slightly yellowish pellets, combining hardness with excellent low-temperature flexibility.

Physical Property	Test Method	Typical Values *
Density @ 20°C	DIN 53.479	1.20 gr/cm ³
Shore Hardness	DIN 53.505	85 A
Tensile Strength	DIN 53.504	26 MPa
Modulus @ 100% Elongation	DIN 53.504	5 MPa
Modulus @ 300% Elongation	DIN 53.504	7 MPa
Elongation @ Break	DIN 53.504	630 %
Compression Set (70h / 23°C)	DIN 53.517	35 %
Compression Set (24h / 70°C)	DIN 53.517	85 %
Abrasion Loss	DIN 53.516	28 mm ³
Melting Range (MFI=10)	MQSA 111	130 – 140 °C
Tg. (DSC, 10°C / min.)	DIN 51.007	-32 °C

* These are typical values and should not be used for establishing specifications.

APPLICATIONS

PEARLCOAT® 125H is used mostly in melt coatings on textile substrates and for conveyor belts obtained by sintering (in this case the product is previously ground, so as to be in powder form).

For optimum results, previous drying of the product during 2 hours at 80 - 90° C is advisable, in a hot air circulatory, vacuum or desiccant-air dryer.

HEALTH AND SAFETY

A safety data sheet on **PEARLCOAT® 125H** is available, with all information related to safety.

The ingredients of **PEARLCOAT® 125H** comply with F.D.A. regulations, as described under 21 CFR, §177.2600 "Rubber Articles intended for Repeated Use" when **PEARLCOAT® 125H** is used in coatings and adhesives which are in contact with food.

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PACKAGING

PEARLCOAT® 125H is packaged in heat-sealed, moisture proof multi-layer bags of 25 kg net weight made of PE/Aluminium/PE. Bags are shipped on pallets of 750 kg. Additionally, PE-lined cardboard gaylords of 700 kg net weight are available.

STORAGE

Material received from Merquinsa should be inspected to assure containers are not damaged during transportation before being stored prior to use. PEARLCOAT® 125H should be kept in a cool (15-25°C) and dry environment prior to being processed. Standard practice of consuming resin on first-in first-out basis should be employed.