MX 1205 SA 01 MED

Polyether block amide **PEBAX® MX 1205 SA 01 MED** is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This grade offers the highest quality and it is specially designed to meet the stringent requirements of the medical applications such as minimally invasive devices. **PEBAX® MX 1205 SA 01 MED** also offers an excellent combination of properties such as: kink resistance, low friction coefficient and superior dynamic response. Upon request letters regarding USP Class VI testing can be provided.

Main Characteristics	Value	Unit	Test Method
Density	**1.01**	g/cm^3	ISO 1183
Water Absorption at Equilibrium At 20℃ and 50 % RH **Water Absorption** At 23℃ and 24 h in water	**0.4** **1.2**	% %	ISO 62
Melting Point	**147**	℃	ISO 11357
Vicat Point Under 1 daN	**111**	℃	ISO 306
Shrinkage (after 24h, 4 mm, mould at 20℃) // ⊥	**0.4** **1.1**	% %	Internal method
Hardness Shore (*) Instantaneous After 15 s	**46** **41**	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	**42** **>450**	MPa %	ASTM D 638
Flexural Modulus (*)	**86**	MPa	ISO 178
Charpy Impact Unnotched 23℃ Unnotched -30℃ V-notched 23℃ V-notched -30℃	**No break** **No break** **No break** **No break**	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

(*) Samples conditioned 15 days at 23℃ - 50 % R.H.

Processing Conditions	Typical Values
Drying (*): Time / Temperature	4-6 hours / 60-70℃
Injection Temperature: Min / Recommended / Max **Extrusion Temperature:** Min / Recommended / Max	200℃ / 240℃ / 270℃ 210℃ / 220℃ / 230℃
Mold Temperature:	10-30℃

(*) Pebax® is delivered dried in sealed packaging ready to be processed. Drying is only necessary for bags opened for more than 2 hours.

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