

Polyether block amide **Pebax® Rnew 55R53 SA 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources.

Main Characteristics	Value	Unit	Test Method
Percentage of Renewable Carbon (calculation)	62-66	%	ASTM 6866
Density	1.03	g/cm ³	ISO 1183
Melting Point	167	°C	ISO 11357
Vicat Point Under 1 daN	156	°C	ISO 306
Hardness Shore (*) Instantaneous After 15 s	53 51	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	45 >400	MPa %	ISO 527
Flexural Modulus (*)	158	MPa	ISO 178
Charpy Impact unnotched 23°C unnotched -30°C V-notched 23°C V-notched -30°C	No break No break No break No break	kJ/m ² kJ/m ² kJ/m ² kJ/m ²	ISO 179

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

Processing Conditions	Typical Values
Drying (*) : Time / Temperature	4-6 hours / 65-75°C
Injection Temperature : Min / Recommended / Max	200°C / 240°C / 270°C
Extrusion Temperature : Min / Recommended / Max	210°C / 220°C / 230°C
Mold Temperature :	25-60°C

(*) 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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