

Polyether block amide **Pebax® Rnew 35R53 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)	28-32	%	ASTM 6866
Density	1.02	g/cm ³	ISO 1183
Melting Point	146	°C	ISO 11357
Vicat Point Under 1 daN	81	°C	ISO 306
Hardness Shore (*) Instantaneous After 15 s	32 25	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	30 >700	MPa %	ISO 527
Flexural Modulus (*)	41	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/m² kJ/m² kJ/m² kJ/m²	ISO 179

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

Processing Conditions	Typical Values
Drying (*) : Time / Temperature	4-8 hours / 55-65°C
Injection Temperature : Min / Recommended / Max	180°C / 210°C / 240°C
Extrusion Temperature : Min / Recommended / Max	190°C / 205°C / 220°C
Mold Temperature :	10-30°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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