

Polyether block amide **Pebax® Rnew 70R53 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)	87-91	%	ASTM 6866
Density	1.03	g/cm ³	ISO 1183
Water Absorption at Equilibrium at 20°C and 50 % RH	0.7	%	ISO 62
Water Absorption at Saturation 24 h in water at 23°C	1.0	%	
Melting Point	186	°C	ISO 11357
Vicat Point Under 1 daN	175	°C	ISO 306
Hardness Shore (*) Instantaneous After 15 s	70 62	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	57 >350	MPa %	ISO 527
Flexural Modulus (*)	360	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 15^(c)	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

(*) Samples conditioned 15 days at 23°C - 50 % R.H; (c) = Complete Break

Processing Conditions	Typical Values
Drying (*): Time / Temperature	5-7 hours / 70-80°C
Injection Temperature: Min / Recommended / Max	230°C / 260°C / 290°C
Extrusion Temperature: Min / Recommended / Max	220°C / 235°C / 250°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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