

Polyether block amide **Pebax® Rnew 40R53 SP 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources. This SP grade has been developed to be heat and UV resistant.

Main Characteristics	Value	Unit	Test Method
Percentage of Renewable Carbon (calculation)	44-48	%	ASTM 6866
Density	1.03	g/cm ³	ISO 1183
Melting Point	148	°C	ISO 11357
Vicat Point Under 1 daN	121	°C	ISO 306
Hardness Shore (*) Instantaneous After 15 s	42 39	Shore D Shore D	ISO 868
Tensile Test (*) Stress at Break Strain at Break	45 >600	MPa %	ISO 527
Flexural Modulus (*)	75	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	4-6 hours / 60-70°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 :	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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