70R53 SA 01

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℃ and 50 % RH **Water Absorption at Saturation** 24 h in water at 23℃	**0.7** **1.0**	% %	ISO 62
Melting Point	**186**	℃	ISO 11357
Vicat Point Under 1 daN	**175**	℃	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℃ unnotched -30℃ V-notched 23℃ V-notched -30℃	**No break** **No break** **No break** **15** (c)	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

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

Processing Conditions	Typical Values
Drying (*): Time / Temperature	5-7 hours / 70-80℃
Injection Temperature: Min / Recommended / Max **Extrusion Temperature:** Min / Recommended / Max	230℃ / 260℃ / 290℃ 220℃ / 235℃ / 250℃
Mold Temperature:	25-60℃

(*) 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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The world is our inspiration

Technical Polymers
420 rue d'Estienne d'Orves
92700 Colombes, France
www.arkema.com

www.pebax.com