55R53 SA 01

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**	℃	ISO 11357
Vicat Point Under 1 daN	**156**	℃	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℃ unnotched -30℃ V-notched 23℃ V-notched -30℃	**No break** **No break** **No break** **No break**	kJ/m² kJ/m² kJ/m² kJ/m²	ISO 179

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

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

DPT/TDS/55475/March 2009

The world is our inspiration

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