

Polyether block amide **Pebax® Rnew 55R53 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.

Note that this document is a **temporary** data sheet.

| 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 | °C | ISO 11357 |
| 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 |
| Tensile Modulus (*) | 145 | MPa | ISO 527 |

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

| Processing Conditions | Typical Values |
|---|-----------------------|
| Drying (*): Time / Temperature | 4-6 hours / 65-75°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: | 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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