

Polyether block amide **Pebax® Rnew 35R53 SA 01** is a thermoplastic elastomer made of flexible polyether and rigid polyamide based on renewable resources.

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

| Main Characteristics  | Value                       | Unit               | Test Method |
|---|-----------------------------|--------------------|-------------|
| <b>Percentage of Renewable Carbon (calculation)</b>           | <b>28-32</b>                | %                  | ASTM 6866   |
| <b>Density</b>  | <b>1.02</b>                 | g/cm <sup>3</sup>  | ISO 1183    |
| <b>Melting Point</b>  | <b>146</b>                  | °C                 | ISO 11357   |
| <b>Hardness Shore (*)</b><br>Instantaneous<br>After 15 s      | <b>32</b><br><b>25</b>      | Shore D<br>Shore D | ISO 868     |
| <b>Tensile Test (*)</b><br>Stress at Break<br>Strain at Break | <b>30</b><br><b>&gt;700</b> | MPa<br>%           | ISO 527     |
| <b>Tensile Modulus (*)</b>                                    | <b>50</b>                   | MPa                | ISO 527     |

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

| Processing Conditions                                  | Typical Values        |
|--|-----------------------|
| <b>Drying (*)</b> : Time / Temperature                 | 4-8 hours / 55-65°C   |
| <b>Injection Temperature</b> : Min / Recommended / Max | 180°C / 210°C / 240°C |
| <b>Extrusion Temperature</b> : Min / Recommended / Max | 190°C / 205°C / 220°C |
| <b>Mold Temperature</b> :                              | 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.

DPT/TDS/55471/August 2008

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