

## Arkema Group Pebax® MV 1041 SA 01 Polyether Block Amide (PEBA)

Category : Polymer , Thermoplastic , Polyether Block Amide (PEBA)

### Material Notes:

Polyether block amide PEBAX® MV 1041 SA 01 is a thermoplastic elastomer made of flexible polyether and rigid polyamide. This hydrophilic grade when extruded into either a thin film or laminated on to a substrate offers excellent permeability to moisture vapor while remaining waterproof and offering an excellent barrier layer to bacteria. This SA grade is specially designed to medical and food uses. Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Pebax-MV-1041-SA-01-Polyether-Block-Amide-PEBA.php](http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-MV-1041-SA-01-Polyether-Block-Amide-PEBA.php)

| Physical Properties                | Metric                                                                     | English                                                                         | Comments            |
|------------------------------------|----------------------------------------------------------------------------|---------------------------------------------------------------------------------|---------------------|
| Density                            | 1.04 g/cc                                                                  | 0.0376 lb/in <sup>3</sup>                                                       | ISO 1183            |
| Water Absorption                   | 12 %<br>@Temperature 23.0 °C,<br>Time 86400 sec                            | 12 %<br>@Temperature 73.4 °F,<br>Time 24.0 hour                                 | ISO 62              |
| Moisture Absorption at Equilibrium | 0.90 %<br>@Temperature 20.0 °C                                             | 0.90 %<br>@Temperature 68.0 °F                                                  | 50% RH; ISO 62      |
| Water Vapor Transmission           | 2200 g/m <sup>2</sup> /day<br>@Thickness 0.0150 mm,<br>Temperature 38.0 °C | 142 g/100 in <sup>2</sup> /day<br>@Thickness 0.000591 in,<br>Temperature 100 °F | 90% RH; ASTM E96 E  |
|                                    | 8000 g/m <sup>2</sup> /day<br>@Thickness 0.0150 mm,<br>Temperature 38.0 °C | 515 g/100 in <sup>2</sup> /day<br>@Thickness 0.000591 in,<br>Temperature 100 °F | 50% RH; ASTM E96 BW |

| Mechanical Properties     | Metric    | English  | Comments                                                     |
|---------------------------|-----------|----------|--------------------------------------------------------------|
| Hardness, Shore D         | 60        | 60       | Instantaneous, Conditioned 15 days at 23°C - 50% RH; ISO 868 |
| Tensile Strength at Break | 44.0 MPa  | 6380 psi | Conditioned 15 days at 23°C - 50% RH; ASTM D638              |
| Elongation at Break       | 450 %     | 450 %    | Conditioned 15 days at 23°C - 50% RH; ASTM D638              |
| Flexural Modulus          | 0.270 GPa | 39.2 ksi | Conditioned 15 days at 23°C - 50% RH; ISO 178                |

| Thermal Properties | Metric | English | Comments  |
|--------------------|--------|---------|-----------|
| Melting Point      | 170 °C | 338 °F  | ISO 11357 |

| Processing Properties | Metric           | English          | Comments   |
|-----------------------|------------------|------------------|------------|
| Nozzle Temperature    | 190 - 210 °C     | 374 - 410 °F     | Blown Film |
|                       | 240 - 250 °C     | 464 - 482 °F     | Cast Film  |
|                       | 240 - 250 °C     | 464 - 482 °F     | Coating    |
| Drying Temperature    | 70.0 - 80.0 °C   | 158 - 176 °F     |            |
| Dry Time              | 4.00 - 8.00 hour | 4.00 - 8.00 hour |            |

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