

## Arkema Group Pebax® 2533 Polyether Block Amide (PEBA)

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

Material Notes:

Information provided by Arkema Group

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Arkema-Group-Pebax-2533-Polyether-Block-Amide-PEBA.php](http://www.lookpolymers.com/polymer_Arkema-Group-Pebax-2533-Polyether-Block-Amide-PEBA.php)

| Physical Properties            | Metric      | English       | Comments                          |
|--------------------------------|-------------|---------------|-----------------------------------|
| Density                        | 1.01 g/cc   | 0.0365 lb/in³ | ASTM D792                         |
| Water Absorption               | 1.2 %       | 1.2 %         | 24 hr in water at 20°C; ASTM D570 |
| Water Absorption at Saturation | 0.50 %      | 0.50 %        | 20°C and 65% RH; ASTM D570        |
| Melt Flow                      | 10 g/10 min | 10 g/10 min   | ASTM D1238                        |

| Mechanical Properties     | Metric                      | English                     | Comments                               |
|---------------------------|-----------------------------|-----------------------------|----------------------------------------|
| Hardness, Shore A         | 75                          | 75                          | ASTM D2240                             |
| Hardness, Shore D         | 25                          | 25                          | ASTM D2240                             |
| Tensile Strength at Break | 29.0 MPa                    | 4210 psi                    | ASTM D638                              |
| Elongation at Break       | 790 %                       | 790 %                       | ASTM D638                              |
| Modulus of Elasticity     | 0.0104 GPa                  | 1.51 ksi                    | ASTM D638                              |
| Flexural Modulus          | 0.0150 GPa                  | 2.18 ksi                    | ASTM D790                              |
| Resilience                | 0.75                        | 0.75                        | BS 903 par: A 8                        |
| Flex Crack Resistance     | 2.0                         | 2.0                         | [mm] 20°C / 100000 flexures; ASTM D813 |
|                           | 2.5                         | 2.5                         | [mm] -20°C / 50000 flexures; ASTM D813 |
| Izod Impact, Notched      | NB                          | NB                          | ASTM D256-A                            |
|                           | NB<br>@Temperature -40.0 °C | NB<br>@Temperature -40.0 °F | ASTM D256-A                            |
| Izod Impact, Unnotched    | NB                          | NB                          | ASTM D256-A                            |
|                           | NB<br>@Temperature -40.0 °C | NB<br>@Temperature -40.0 °F | ASTM D256-A                            |
| Tear Strength             | 38.0 kN/m                   | 217 pli                     | notched; ASTM D624 (C)                 |

| Mechanical Properties          | <sup>58.0 kN/m</sup><br>Metric | <sup>331 pli</sup><br>English | unnotched: ASTM D624 (C)<br>Comments              |
|--------------------------------|--------------------------------|-------------------------------|---------------------------------------------------|
| Taber Abrasion, mg/1000 Cycles | 94                             | 94                            | ASTM D1242                                        |
| Abrasion                       | 155                            | 155                           | mm<sup>3</sup>; DIN 53516                         |
| Compression Set                | 62 %                           | 62 %                          | Load = 9.3 MPa (22 hr / 70°C); ASTM D395 Method A |

| Thermal Properties                             | Metric                                        | English                                         | Comments                |
|------------------------------------------------|-----------------------------------------------|-------------------------------------------------|-------------------------|
| Heat of Fusion                                 | 5.00 J/g                                      | 2.15 BTU/lb                                     | ASTM D3417              |
| CTE, linear                                    | 200 µm/m-°C<br>@Temperature -40.0 -<br>140 °C | 111 µin/in-°F<br>@Temperature -40.0 -<br>284 °F | ASTM D696               |
| Melting Point                                  | 133.5 °C                                      | 272.3 °F                                        | ASTM D3418              |
| Deflection Temperature at 0.46 MPa<br>(66 psi) | 42.0 °C                                       | 108 °F                                          | ASTM D648               |
| Vicat Softening Point                          | 60.0 °C                                       | 140 °F                                          | under 1 daN; ASTM D1525 |

| Electrical Properties | Metric                               | English                              | Comments          |
|-----------------------|--------------------------------------|--------------------------------------|-------------------|
| Surface Resistance    | 3.00e+12 ohm<br>@Temperature 20.0 °C | 3.00e+12 ohm<br>@Temperature 68.0 °F | 65% RH; ASTM D257 |

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China