

## Multibase TPSiV® 4000-80A Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE , Thermoplastic Vulcanizate Elastomer (TPV) , Silicone, Thermoplastic

### Material Notes:

**FEATURES & BENEFITS:** Soft silky feel; Excellent abrasion and scratch resistance; Excellent bonding to PC, ABS; UV stable

**APPLICATIONS:** Solution for soft touch overmolding on consumer electronics, mobile communication devices, computers, and sport & leisure

applications. Information provided by Multibase, a Dow Corning Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-TPSiV-4000-80A-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Multibase-TPSiV-4000-80A-Thermoplastic-Elastomer.php)

| Physical Properties   | Metric                                              | English                                             | Comments |
|-----------------------|-----------------------------------------------------|-----------------------------------------------------|----------|
| Specific Gravity      | 1.11 g/cc                                           | 1.11 g/cc                                           | ISO 1183 |
| Linear Mold Shrinkage | 0.010 - 0.030 cm/cm                                 | 0.010 - 0.030 in/in                                 |          |
| Melt Flow             | 13 g/10 min<br>@Load 10.0 kg,<br>Temperature 190 °C | 13 g/10 min<br>@Load 22.0 lb,<br>Temperature 374 °F | ISO 1133 |

| Mechanical Properties          | Metric                                          | English                                         | Comments   |
|--------------------------------|-------------------------------------------------|-------------------------------------------------|------------|
| Hardness, Shore A              | 76                                              | 76                                              | ISO 868    |
| Tensile Strength               | 8.80 MPa                                        | 1280 psi                                        | ISO 37     |
| Tensile Strength, Ultimate     | 4.90 MPa                                        | 711 psi                                         | ISO 37     |
| Elongation at Break            | 426 %                                           | 426 %                                           | ISO 37     |
| Flexural Strength              | 2.62 MPa                                        | 380 psi                                         | ISO 178    |
| Flexural Modulus               | 0.0434 GPa                                      | 6.29 ksi                                        | ISO 178    |
| Tear Strength                  | 42.7 kN/m                                       | 244 pli                                         | ISO 34     |
| Taber Abrasion, mg/1000 Cycles | 64                                              | 64                                              | ASTM D3389 |
| Compression Set                | 26 %<br>@Temperature 23.0 °C,<br>Time 79200 sec | 26 %<br>@Temperature 73.4 °F,<br>Time 22.0 hour | ISO 815    |
|                                | 73 %<br>@Temperature 70.0 °C,<br>Time 79200 sec | 73 %<br>@Temperature 158 °F,<br>Time 22.0 hour  | ISO 815    |

| Processing Properties | Metric       | English      | Comments |
|-----------------------|--------------|--------------|----------|
| Feed Temperature      | 160 - 170 °C | 320 - 338 °F |          |

| Processing Properties    | Metric         | English       | Comments |
|--------------------------|----------------|---------------|----------|
| Front Barrel Temperature | 170 - 180 °C   | 338 - 356 °F  |          |
| Nozzle Temperature       | 180 - 200 °C   | 356 - 392 °F  |          |
| Melt Temperature         | 190 °C         | 374 °F        |          |
| Mold Temperature         | 20.0 - 40.0 °C | 68.0 - 104 °F |          |
| Drying Temperature       | 65.0 - 80.0 °C | 149 - 176 °F  |          |
| Dry Time                 | 2 - 4 hour     | 2 - 4 hour    |          |

| Descriptive Properties | Value    | Comments |
|------------------------|----------|----------|
| Injection Speed        | MED-FAST |          |

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