

## Multibase TPSiV® 3111-60A 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; Hydrolysis resistant; FDA 21 CFR 177.2600 Compliant **APPLICATIONS:** Solution for soft touch overmolding on consumer electronics, mobile communication devices, computers, and sport & leisure applications; Seals and enclosures. Information provided by Multibase, a Dow Corning Company

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Multibase-TPSiV-3111-60A-Thermoplastic-Elastomer.php](http://www.lookpolymers.com/polymer_Multibase-TPSiV-3111-60A-Thermoplastic-Elastomer.php)

| Physical Properties   | Metric              | English             | Comments |
|-----------------------|---------------------|---------------------|----------|
| Specific Gravity      | 1.15 g/cc           | 1.15 g/cc           | ISO 1183 |
| Linear Mold Shrinkage | 0.010 - 0.030 cm/cm | 0.010 - 0.030 in/in |          |

| Mechanical Properties      | Metric                                  | English                                 | Comments |
|----------------------------|-----------------------------------------|-----------------------------------------|----------|
| Hardness, Shore A          | 63                                      | 63                                      | ISO 868  |
| Tensile Strength           | 5.70 MPa                                | 827 psi                                 | ISO 37   |
| Tensile Strength, Ultimate | 3.20 MPa                                | 464 psi                                 | ISO 37   |
| Elongation at Break        | 475 %                                   | 475 %                                   | ISO 37   |
| Flexural Strength          | 1.20 MPa                                | 174 psi                                 | ISO 178  |
| Flexural Modulus           | 0.0221 GPa                              | 3.21 ksi                                | ISO 178  |
| Tear Strength              | 25.3 kN/m                               | 144 pli                                 | ISO 34   |
| Compression Set            | 13 %                                    | 13 %                                    | ISO 815  |
|                            | @Temperature 23.0 °C,<br>Time 79200 sec | @Temperature 73.4 °F,<br>Time 22.0 hour |          |
|                            | 72 %                                    | 72 %                                    | ISO 815  |
|                            | @Temperature 70.0 °C,<br>Time 79200 sec | @Temperature 158 °F,<br>Time 22.0 hour  |          |

| Processing Properties     | Metric       | English      | Comments |
|---------------------------|--------------|--------------|----------|
| Feed Temperature          | 185 - 195 °C | 365 - 383 °F |          |
| Middle Barrel Temperature | 190 - 200 °C | 374 - 392 °F |          |
| Front Barrel Temperature  | 200 - 215 °C | 392 - 419 °F |          |
| Nozzle Temperature        | 205 - 220 °C | 401 - 428 °F |          |

| Melt Temperature<br>Processing Properties | 215 °C<br>Metric | 419 °F<br>English | Comments |
|-------------------------------------------|------------------|-------------------|----------|
| Mold Temperature                          | 30.0 - 60.0 °C   | 86.0 - 140 °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 |          |

**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