

Multibase Multi-Flex[®] D 3604 TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Features: Chemical Resistance, Good Colorability, Good Elasticity, High Electrically Insulating Flame Retardant Flexibility, Good Heat Stabilized Ozone Resistant Processability, Good UV Resistance, Good Paintable Forms: Pellets Processing Method: Injection Molding
Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-D-3604-TPE-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Specific Gravity | 0.950 g/cc | 0.950 g/cc | ASTM 792 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in | ASTM D955 |
| Melt Flow | 6.0 g/10 min @Load 2.16 kg, Temperature 230 °C | 6.0 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|-----------|----------|------------------------|
| Hardness, Shore A | 90 | 90 | 10 seconds; ASTM D2240 |
| Tensile Strength, Ultimate | 11.0 MPa | 1600 psi | ASTM D638 |
| Elongation at Break | 680 % | 680 % | ASTM D638 |
| Flexural Modulus | 0.128 GPa | 18.5 ksi | 1% Secant; ASTM D790 |
| Tear Strength | 50.8 kN/m | 290 pli | ASTM D624 |

| Thermal Properties | Metric | English | Comments |
|-------------------------|-----------|-------------|------------|
| Brittleness Temperature | -50.0 °C | -58.0 °F | ASTM D746 |
| Flame Spread | 18 mm/min | 0.71 in/min | FM VSS-302 |

| Processing Properties | Metric | English | Comments |
|---------------------------|---------|---------|----------|
| Middle Barrel Temperature | 210 °C | 410 °F | |
| Front Barrel Temperature | 227 °C | 440 °F | |
| Nozzle Temperature | 235 °C | 455 °F | |
| Mold Temperature | 51.7 °C | 125 °F | |
| Drying Temperature | 51.7 °C | 125 °F | |

| Processing Properties | Metric ^{ur} | English ^{ur} | Comments |
|-----------------------|----------------------|-----------------------|----------|
| Injection Pressure | 3.45 - 4.83 MPa | 500 - 700 psi | |
| Back Pressure | 0.345 MPa | 50.0 psi | |
| Screw Speed | 40 rpm | 40 rpm | |

| Descriptive Properties | Value | Comments |
|------------------------|------------------------------|----------|
| Clamp Tonnage | 1.5-2.5 tons/in ² | |
| Fogging | Min. 90 | SAE-J275 |
| Injection Rate | Fast | |
| Suggested Max Regrind | 0.5 | |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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