

Multibase Multi-Flex[®] A 8502 LC UV RXF/YYWA Black TPE Thermoplastic Elastomer

Category : Polymer , Thermoplastic , Elastomer, TPE

Material Notes:

Forms: Pellets Processing Methods: Injection Molding Information provided by Multibase

Order this product through the following link:

http://www.lookpolymers.com/polymer_Multibase-Multi-Flex-A-8502-LC-UV-RXFYYWA-Black-TPE-Thermoplastic-Elastomer.php

| Physical Properties | Metric | English | Comments |
|-----------------------|--|--|------------|
| Specific Gravity | 1.03 g/cc | 1.03 g/cc | ASTM 792 |
| Linear Mold Shrinkage | 0.013 cm/cm | 0.013 in/in | ASTM D955 |
| Melt Flow | 1.0 g/10 min @Load 2.16 kg, Temperature 230 °C | 1.0 g/10 min @Load 4.76 lb, Temperature 446 °F | ASTM D1238 |

| Mechanical Properties | Metric | English | Comments |
|-------------------------|---------------------------|--------------------------|----------------------------|
| Hardness, Shore A | 83 | 83 | 10 seconds; ASTM D2240 |
| Tensile Strength, Yield | 11.0 MPa | 1600 psi | Elastic; ASTM D412 |
| | 4.55 MPa @Strain 100 % | 660 psi @Strain 100 % | ASTM D412 |
| Elongation at Break | 500 % | 500 % | Elastic; ASTM D412 |
| Flexural Strength | 3.59 MPa | 520 psi | ASTM D790 |
| Flexural Modulus | 0.0586 GPa | 8.50 ksi | 1% Secant; ASTM D790 |
| Tear Strength | 43.8 kN/m | 250 pli | ASTM D624 |
| Compression Set | 25 % | 25 % | 73°F, 70 hours; ASTM D395 |
| | 51 % | 51 % | 158°F, 70 hours; ASTM D395 |

| 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 | |

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