

# Multi-Flex® TPE A7727 HM

Thermoplastic Elastomer

Multibase, A Dow Corning Company

## Message:

Multi-Flex® TPE A7727 HM is a Thermoplastic Elastomer (TPE) product. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

| General Information                       |               |                   |             |
|-------------------------------------------|---------------|-------------------|-------------|
| Forms                                     | Pellets       |                   |             |
| Physical                                  | Nominal Value | Unit              | Test Method |
| Specific Gravity                          | 1.22          | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 17            | g/10 min          | ASTM D1238  |
| Hardness                                  | Nominal Value | Unit              | Test Method |
| Durometer Hardness (Shore D, 10 sec)      | 44            |                   | ASTM D2240  |
| Mechanical                                | Nominal Value | Unit              | Test Method |
| Flexural Modulus                          | 393           | MPa               | ASTM D790   |
| Elastomers                                | Nominal Value | Unit              | Test Method |
| Tensile Strength (Break)                  | 9.65          | MPa               | ASTM D412   |
| Tensile Elongation (Break)                | 490           | %                 | ASTM D412   |
| Tear Strength                             | 68.3          | kN/m              | ASTM D624   |
| Injection                                 | Nominal Value | Unit              |             |
| Drying Temperature                        | 65.6          | °C                |             |
| Drying Time                               | 2.0 to 4.0    | hr                |             |
| Rear Temperature                          | 182           | °C                |             |
| Middle Temperature                        | 191           | °C                |             |
| Front Temperature                         | 199           | °C                |             |
| Nozzle Temperature                        | 204           | °C                |             |
| Processing (Melt) Temp                    | 204           | °C                |             |
| Mold Temperature                          | 26.7 to 37.8  | °C                |             |
| Injection Rate                            | Moderate-Fast |                   |             |

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