

# Elastane™ 4725-94A

Thermoplastic Polyurethane Elastomer (Polyester)

Technical Polymers, LLC

Message:

Elastane™ 4725-94A is a Thermoplastic Polyurethane Elastomer (Polyester) (TPU-Polyester) material. It is available in North America for extrusion or injection molding.

| General Information                |                   |                   |             |
|------------------------------------|-------------------|-------------------|-------------|
| Forms                              | Pellets           |                   |             |
| Processing Method                  | Extrusion         |                   |             |
|                                    | Injection Molding |                   |             |
| Physical                           | Nominal Value     | Unit              | Test Method |
| Specific Gravity                   | 1.21              | g/cm <sup>3</sup> | ASTM D792   |
| Hardness                           | Nominal Value     | Unit              | Test Method |
| Durometer Hardness (Shore A, 23°C) | 94                |                   | ASTM D2240  |
| Elastomers                         | Nominal Value     | Unit              | Test Method |
| Tensile Stress                     |                   |                   | ASTM D412   |
| 50% Strain, 23°C                   | 9.65              | MPa               |             |
| 100% Strain, 23°C                  | 11.0              | MPa               |             |
| 300% Strain, 23°C                  | 25.5              | MPa               |             |
| Tensile Strength (Yield, 23°C)     | 60.7              | MPa               | ASTM D412   |
| Tensile Elongation (Break, 23°C)   | 500               | %                 | ASTM D412   |
| Tear Strength (23°C)               | 126               | kN/m              | ASTM D624   |
| Compression Set                    |                   |                   | ASTM D395   |
| 23°C, 70 hr                        | 28                | %                 |             |
| 70°C, 22 hr                        | 48                | %                 |             |
| Thermal                            | Nominal Value     | Unit              | Test Method |
| Vicat Softening Temperature        | 120               | °C                | ASTM D1525  |
| Injection                          | Nominal Value     | Unit              |             |
| Drying Temperature                 | 87.8 to 104       | °C                |             |
| Drying Time                        | 3.0 to 4.0        | hr                |             |
| Processing (Melt) Temp             | 204 to 227        | °C                |             |
| Mold Temperature                   | 26.7 to 60.0      | °C                |             |
| Extrusion                          | Nominal Value     | Unit              |             |
| Drying Temperature                 | 87.8 to 104       | °C                |             |
| Drying Time                        | 3.0 to 4.0        | hr                |             |
| Melt Temperature                   | 204 to 227        | °C                |             |

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