

apilon 52c® C S200

Thermoplastic Polyurethane Elastomer (Polyester)

API SpA

Message:

The wide range of APILON52 C products consisting exclusively of aromatic thermoplastic polyurethanes is equipped to meet most market demands. The APILON52 C famiy is organized in different chemical types, designed to provide a physical/ chemical performance corresponding to the specific needs of different uses in the FOOTWEAR, CLOTHING, LEATHER GOODS AND FURNISHINGS industries.

POLYESTERS - These are products that are intended for all applications that favour the quality/price ratio of a polymer. Its excellent chemical and mechanical properties make this range a basic starting point for the production of coagulated bases for the synthetic leather industry.

| General Information | | | |
|----------------------------------|----------------------|---------|-------------|
| Features | High Elasticity | | |
| | High Rigidity | | |
| Uses | Coating Applications | | |
| | Footwear | | |
| Physical | Nominal Value | Unit | Test Method |
| Solution Viscosity ¹ | 10000 to 20000 | mPa · s | |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 67 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| -- | 45.0 | MPa | |
| 100% Strain | 20.0 | MPa | |
| 300% Strain | 31.0 | MPa | |
| Tensile Elongation (Break) | 550 | % | ASTM D638 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tear Strength ² | 200 | kN/m | ASTM D624 |
| Thermal | Nominal Value | Unit | |
| Melting Temperature ³ | 210 to 220 | °C | |
| NOTE | | | |
| 1. | 25% in DMF | | |
| 2. | Without Notch | | |
| 3. | Kofler | | |

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