

Soffflex 0954 1402 BLACK

LyondellBasell Industries - Thermoplastic Elastomer

General Information

Product Description

Soffflex 0954 1402 BLACK is a Thermoplastic Elastomer material and is typically used in Coating, Injection Molding applications.

General

| | |
|-------------------|-------------------------------|
| Forms | • Pellets |
| Processing Method | • Coating • Injection Molding |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|----------|-------------|
| Density / Specific Gravity | 1.09 | | ASTM D792 |
| Melt Mass-Flow Rate (MFR) ² | | | ASTM D1238 |
| 200°C/5.0 kg | 21 | g/10 min | |
| 235°C/1.0 kg | 19 | g/10 min | |
| Mechanical | Nominal Value | Unit | Test Method |
| Taber Abrasion Resistance | | | ASTM D3389 |
| 1000 Cycles, 1000 g, H-22 Wheel | 238 | mg | |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Set (100% Strain) | 7 | % | ASTM D412 |
| Tensile Stress (50% Strain) | 373 | psi | ASTM D412 |
| Tensile Stress (100% Strain) | 474 | psi | ASTM D412 |
| Tensile Stress (300% Strain) | 711 | psi | ASTM D412 |
| Tensile Strength ³ (Yield) | 1380 | psi | ASTM D412 |
| Tensile Elongation (Break) | 810 | % | ASTM D412 |
| Tear Strength | 260 | lbf/in | ASTM D624 |
| Compression Set | | | ASTM D395B |
| 73°F, 22 hr | 24 | % | |
| 158°F, 22 hr | 78 | % | |
| 212°F, 22 hr | 96 | % | |
| Impact | Nominal Value | Unit | Test Method |
| Gardner Impact (-22°F) | > 320 | in-lb | ASTM D5420 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness | | | ASTM D2240 |
| Shore A | 68 to 78 | | |
| Shore A, 10 sec | 64 to 74 | | |

Processing Information

| Injection | Nominal Value | Unit |
|---------------------|---------------|------|
| Drying Temperature | 129 to 140 | °F |
| Drying Time | 4.0 to 6.0 | hr |
| Suggested Shot Size | 40 to 80 | % |
| Rear Temperature | 320 to 360 | °F |
| Middle Temperature | 340 to 379 | °F |
| Front Temperature | 410 to 430 | °F |
| Nozzle Temperature | 390 to 421 | °F |

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| Injection | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 379 to 410 | °F |
| Mold Temperature | 81 to 120 | °F |
| Injection Pressure | 5000 to 6000 | psi |
| Holding Pressure | 4000 to 4500 | psi |
| Back Pressure | 75.0 to 149 | psi |
| Screw Speed | 20 to 40 | rpm |

Notes

¹ Typical properties: these are not to be construed as specifications.

² Procedure A

³ 20 in/min