

## Technical Data Sheet

# Softflex ASA 2910

Thermoplastic Elastomer Alloy

LyondellBasell Industries

Engineering Plastics

| General           |                           |                       |                  |
|-------------------|---------------------------|-----------------------|------------------|
| Uses              | • Automotive Applications | • Marine Applications | • Sporting Goods |
| Appearance        | • Colors Available        |                       |                  |
| Forms             | • Pellets                 |                       |                  |
| Processing Method | • Coextrusion             |                       |                  |

| Physical                                              | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                            | 1.03                    | 1.03 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) <sup>1</sup> (200°C/5.0 Kg) | 0.30 g/10 min           | 0.30 g/10 min          | ASTM D1238  |

| Mechanical                                                   | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------------------------------------------|-------------------------|--------------------|-------------|
| Taber Abrasion Resistance<br>1000 Cycles, 1000 G, H-22 Wheel | 241 mg                  | 241 mg             | ASTM D3389  |

| Films               | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------|-------------------------|--------------------|-------------|
| Peel Strength - 90° | 6.0 lbf/in              | 1.1 kN/m           | ASTM D429   |

| Elastomers                            | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------------------------|-------------------------|--------------------|-------------|
| Tensile Set (100% Strain)             | 4 %                     | 4 %                | ASTM D412   |
| Tensile Stress                        |                         |                    | ASTM D412   |
| 50% Strain                            | 218 psi                 | 1.50 MPa           |             |
| 100% Strain                           | 289 psi                 | 1.99 MPa           |             |
| 300% Strain                           | 487 psi                 | 3.36 MPa           |             |
| Tensile Strength <sup>2</sup> (Yield) | 1640 psi                | 11.3 MPa           | ASTM D412   |
| Tensile Elongation (Break)            | 870 %                   | 870 %              | ASTM D412   |
| Tear Strength                         | 256 lbf/in              | 44.8 kN/m          | ASTM D624   |
| Compression Set                       |                         |                    | ASTM D395B  |
| 73°F (23°C), 22 Hr                    | 39 %                    | 39 %               |             |
| 158°F (70°C), 22 Hr                   | 96 %                    | 96 %               |             |
| 212°F (100°C), 22 Hr                  | 98 %                    | 98 %               |             |

| Impact                       | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------------|-------------------------|--------------------|-------------|
| Gardner Impact (73°F (23°C)) | 280 in·lb               | 31.6 J             | ASTM D5420  |

| Hardness           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------|-------------------------|--------------------|-------------|
| Durometer Hardness |                         |                    | ASTM D2240  |
| Shore A            | 91                      | 91                 |             |
| Shore A, 10 Sec    | 85                      | 85                 |             |

| Additional Information | Nominal Value (English) | Nominal Value (SI)      |
|------------------------|-------------------------|-------------------------|
| Overmold Bonding       | ABS, PC, ABS/PC,<br>PPO | ABS, PC, ABS/PC,<br>PPO |

## Notes

<sup>1</sup> Procedure A

<sup>2</sup> 20 in/min (510 mm/min)

## Notes

These are typical property values not to be construed as specification limits.