

Technical Data Sheet

## Alcryn 3065 NC

Melt Processable Rubber  
LyondellBasell Industries  
Engineering Plastics

| General           |                                                                                                                                                                       |                                                                                                                                             |                                                                                                                                             |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| Features          | <ul style="list-style-type: none"><li>• Fast Molding Cycle</li><li>• General Purpose</li><li>• High Heat Resistance</li></ul>                                         | <ul style="list-style-type: none"><li>• Noise Damping</li><li>• Oil Resistant</li><li>• Ozone Resistant</li></ul>                           | <ul style="list-style-type: none"><li>• Recyclable Material</li><li>• Vibration Damping</li></ul>                                           |
| Uses              | <ul style="list-style-type: none"><li>• Cable Jacketing</li><li>• Coating Applications</li><li>• Fabric Coatings</li><li>• Flexible Grips</li><li>• Gaskets</li></ul> | <ul style="list-style-type: none"><li>• General Purpose</li><li>• Handles</li><li>• Hose</li><li>• Overmolding</li><li>• Profiles</li></ul> | <ul style="list-style-type: none"><li>• Seals</li><li>• Tubing</li><li>• Weatherstripping</li><li>• Wire &amp; Cable Applications</li></ul> |
| RoHS Compliance   | • RoHS Compliant                                                                                                                                                      |                                                                                                                                             |                                                                                                                                             |
| Appearance        | • Natural Color                                                                                                                                                       |                                                                                                                                             |                                                                                                                                             |
| Forms             | • Pellets                                                                                                                                                             |                                                                                                                                             |                                                                                                                                             |
| Processing Method | <ul style="list-style-type: none"><li>• Blow Molding</li><li>• Calendering</li></ul>                                                                                  | <ul style="list-style-type: none"><li>• Extrusion</li><li>• Vacuum Forming</li></ul>                                                        |                                                                                                                                             |

| Physical                                                     | Nominal Value (English) | Nominal Value (SI)     | Test Method           |
|--------------------------------------------------------------|-------------------------|------------------------|-----------------------|
| Density / Specific Gravity                                   |                         |                        |                       |
| --                                                           | 1.26                    | 1.26 g/cm <sup>3</sup> | ASTM D471             |
| --                                                           | 1.26 g/cm <sup>3</sup>  | 1.26 g/cm <sup>3</sup> | ISO 2781              |
| Mechanical                                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method           |
| Taber Abrasion Resistance                                    |                         |                        | ASTM D1044            |
| 1000 Cycles, 1000 G, Cs-17 Wheel                             | < 1.00 mg               | < 1.00 mg              |                       |
| Torsion Modulus <sup>1</sup>                                 |                         |                        | ASTM D1043            |
| -4°F (-20°C), 74.8 Mil (1.90 Mm)                             | 6599 psi                | 45.5 MPa               |                       |
| 75°F (24°C), 74.8 Mil (1.90 Mm)                              | 305 psi                 | 2.10 MPa               |                       |
| Elastomers                                                   | Nominal Value (English) | Nominal Value (SI)     | Test Method           |
| Tensile Set <sup>2</sup>                                     | 9 %                     | 9 %                    | ASTM D412             |
| Tensile Stress                                               |                         |                        |                       |
| 100% Strain, 0.0748 In (1.90 Mm) <sup>1</sup>                | 595 psi                 | 4.10 MPa               | ASTM D412<br>ISO 37   |
| 100% Strain, 257°F (125°C), 0.0748 In (1.90 Mm) <sup>3</sup> | 653 psi                 | 4.50 MPa               | ASTM D573<br>ISO 188  |
| Tensile Strength                                             |                         |                        |                       |
| Yield, 0.0748 In (1.90 Mm) <sup>1</sup>                      | 1290 psi                | 8.90 MPa               | ASTM D412<br>ISO 37   |
| Yield, 257°F (125°C), 0.0748 In (1.90 Mm) <sup>3</sup>       | 1290 psi                | 8.90 MPa               | ASTM D573<br>ISO 188  |
| Tensile Elongation                                           |                         |                        |                       |
| Break, 0.0748 In (1.90 Mm) <sup>1</sup>                      | 400 %                   | 400 %                  | ASTM D412<br>ISO 37   |
| Break, 257°F (125°C), 0.0748 In (1.90 Mm) <sup>3</sup>       | 370 %                   | 370 %                  | ASTM D573<br>ISO 188  |
| Tear Strength <sup>4, 1</sup> (0.0748 In (1.90 Mm))          | 205 lbf/in              | 35.9 kN/m              | ASTM D624             |
| Compression Set <sup>5</sup>                                 |                         |                        | ASTM D395B<br>ISO 815 |
| 75°F (24°C), 22 Hr                                           | 17 %                    | 17 %                   |                       |
| 212°F (100°C), 22 Hr                                         | 69 %                    | 69 %                   |                       |
| Clash-Berg Modulus (-9°F (-23°C))                            | 10000 psi               | 68.9 MPa               | ASTM D1043            |

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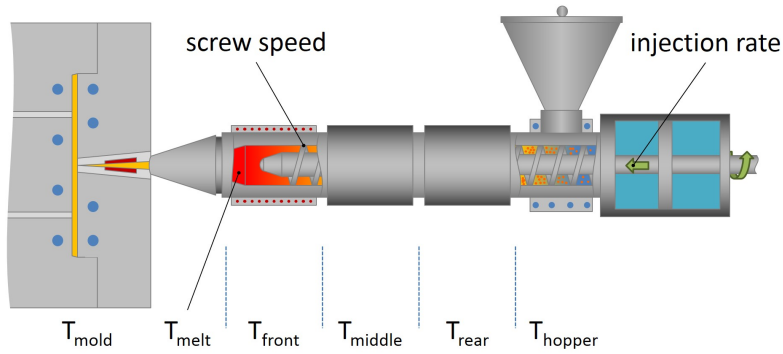
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| Hardness                                               | Nominal Value (English) | Nominal Value (SI) | Test Method           |
|--------------------------------------------------------|-------------------------|--------------------|-----------------------|
| Durometer Hardness                                     |                         |                    | ASTM D2240<br>ISO 868 |
| Shore A, 0.0748 In (1.90 Mm), Compression Molded       | 67                      | 67                 |                       |
| Thermal                                                | Nominal Value (English) | Nominal Value (SI) | Test Method           |
| Brittleness Temperature                                | -49.0 °F                | -45.0 °C           | ASTM D746<br>ISO 812  |
| Aging                                                  | Nominal Value (English) | Nominal Value (SI) | Test Method           |
| Change in Durometer Hardness in Air <sup>2</sup>       |                         |                    | ASTM D573<br>ISO 188  |
| Shore A, 257°F (125°C), 168 Hr                         | -2.0                    | -2.0               |                       |
| Change in Volume <sup>2</sup>                          |                         |                    | ASTM D471<br>ISO 1817 |
| 81°F (27°C), 168 Hr, In Reference Fuel B               | 32 %                    | 32 %               |                       |
| 212°F (100°C), 168 Hr, In Astm #1 Oil                  | -9.0 %                  | -9.0 %             |                       |
| 212°F (100°C), 168 Hr, In Irm 903 Oil                  | 30 %                    | 30 %               |                       |
| 212°F (100°C), 168 Hr, In Water                        | 14 %                    | 14 %               |                       |
| Fill Analysis                                          | Nominal Value (English) | Nominal Value (SI) | Test Method           |
| Melt Viscosity (374°F (190°C), 300 Sec <sup>-1</sup> ) | 580 Pa·s                | 580 Pa·s           | ASTM D3835            |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Processing (Melt) Temp | 351 °F                  | 177 °C             |

### Notes

- <sup>1</sup> Compression Molded
- <sup>2</sup> 1.9 mm, Compression Molded
- <sup>3</sup> 7 days, Compression Molded
- <sup>4</sup> Die C
- <sup>5</sup> Type I pellets, 12.7 mm diameter, plied up from 1.9 mm slabs

### Notes

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