

## Technical Data Sheet

# Invision VX 5090UI

Thermoplastic Vulcanizate  
LyondellBasell Industries  
Engineering Plastics

### Product Description

TPV Partially Crosslinked EPDM Rubber

### General

Processing Method • Injection Molding

| Physical                                               | Nominal Value (English) | Nominal Value (SI) | Test Method      |
|--------------------------------------------------------|-------------------------|--------------------|------------------|
| Density                                                | 0.900 g/cm³             | 0.900 g/cm³        | ISO 1183/A       |
| Mechanical                                             | Nominal Value (English) | Nominal Value (SI) | Test Method      |
| Tensile Stress (100% Strain, 73°F (23°C))              | 899 psi                 | 6.20 MPa           | ISO 527-2/1A/500 |
| Elastomers                                             | Nominal Value (English) | Nominal Value (SI) | Test Method      |
| Tensile Strength (Break)                               | 1310 psi                | 9.00 MPa           | ASTM D412        |
| Tensile Elongation (Break)                             | > 500 %                 | > 500 %            | ASTM D412        |
| Tear Strength <sup>1</sup> (73°F (23°C))               | 297 lbf/in              | 52.0 kN/m          | ISO 34-1         |
| Compression Set (73°F (23°C), 22 Hr)                   | 37 %                    | 37 %               | ASTM D395B       |
| Hardness                                               | Nominal Value (English) | Nominal Value (SI) | Test Method      |
| Shore Hardness                                         |                         |                    | ISO 868          |
| Shore A, 15 Sec, 73°F (23°C)                           | 90                      | 90                 |                  |
| Fill Analysis                                          | Nominal Value (English) | Nominal Value (SI) | Test Method      |
| Melt Viscosity (392°F (200°C), 243 Sec <sup>-1</sup> ) | 120 Pa·s                | 120 Pa·s           | ASTM D3835       |

### Notes

<sup>1</sup> Method Ba, Angle (Unnicked), 20 in/min (500 mm/min)

### Notes

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