

# DEXFLEX® 440

## Thermoplastic Polyolefin Elastomer

LyondellBasell Advanced Polyolefins USA, Inc.

### General

|                   |                             |                             |
|-------------------|-----------------------------|-----------------------------|
| Features          | • Good Weather Resistance   | • Low Temperature Toughness |
| Uses              | • Automotive Exterior Parts |                             |
| Forms             | • Pellets                   |                             |
| Processing Method | • Injection Molding         |                             |

| Physical                                  | Nominal Value | Unit              | Test Method |
|-------------------------------------------|---------------|-------------------|-------------|
| Specific Gravity                          | 0.928         | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg) | 6.0           | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow                  | 1.2 to 1.5    | %                 | ASTM D955   |

| Mechanical                 | Nominal Value | Unit | Test Method |
|----------------------------|---------------|------|-------------|
| Tensile Strength (Break)   | 22.8          | MPa  | ASTM D638   |
| Tensile Elongation (Break) | 700           | %    | ASTM D638   |
| Flexural Modulus           | 414           | MPa  | ASTM D790   |

| Impact         | Nominal Value | Unit | Test Method |
|----------------|---------------|------|-------------|
| Gardner Impact |               |      | ASTM D3029  |
| -30°C          | 27.1          | J    |             |
| 23°C           | 18.1          | J    |             |

| Hardness                     | Nominal Value | Unit | Test Method |
|------------------------------|---------------|------|-------------|
| Durometer Hardness (Shore D) | 50            |      | ASTM D2240  |

| Thermal     | Nominal Value | Unit     | Test Method |
|-------------|---------------|----------|-------------|
| CLTE - Flow | 0.000090      | cm/cm/°C | ASTM D696   |

| Injection              | Nominal Value | Unit |
|------------------------|---------------|------|
| Processing (Melt) Temp | 188 to 260    | °C   |

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.