

# Mytex® AS319LW-01US

Compounded Polypropylene

Mytex Polymers

## Message:

AS319LW-01US is a compounded thermoplastic polyolefin (TPO) designed for exterior automotive applications requiring cold temperature impact, processability and paintability. This product is available in natural, generic black or pre-colored for partial paint applications.

Key Applications:

Exterior parts

bumper fascia

cladding

| General Information                                    |                                   |                   |                 |
|--------------------------------------------------------|-----------------------------------|-------------------|-----------------|
| Features                                               | Good Processability               |                   |                 |
|                                                        | Low Temperature Impact Resistance |                   |                 |
|                                                        | Paintable                         |                   |                 |
| Uses                                                   | Automotive Bumper                 |                   |                 |
|                                                        | Automotive Exterior Parts         |                   |                 |
| Appearance                                             | Black                             |                   |                 |
|                                                        | Natural Color                     |                   |                 |
| Forms                                                  | Pellets                           |                   |                 |
| Physical                                               | Nominal Value                     | Unit              | Test Method     |
| Density                                                | 1.03                              | g/cm <sup>3</sup> | ISO 1183/A      |
| Melt Mass-Flow Rate (MFR) <sup>1</sup> (230°C/2.16 kg) | 24                                | g/10 min          | ISO 1133        |
| Molding Shrinkage <sup>2</sup>                         |                                   |                   | ISO 294-4       |
| --                                                     | 5.0E-3 to 7.0E-3                  | %                 |                 |
| 80°C, 1 hr                                             | 6.0E-3 to 8.0E-3                  | %                 |                 |
| 121°C, 1 hr                                            | 7.0E-3 to 9.0E-3                  | %                 |                 |
| Ash Content (600°C)                                    | 19.0                              | wt%               | ISO 3451-1A     |
| Mechanical                                             | Nominal Value                     | Unit              | Test Method     |
| Tensile Stress (Yield)                                 | 17.0                              | MPa               | ISO 527-2/1A/50 |
| Flexural Modulus - Chord <sup>3</sup>                  | 1700                              | MPa               | ISO 178         |
| Impact                                                 | Nominal Value                     | Unit              | Test Method     |
| Notched Izod Impact Strength (23°C)                    | 46                                | kJ/m <sup>2</sup> | ISO 180/1A      |
| Instrumented Dart Impact <sup>4</sup> (23°C, Max Load) | 16.0                              | J                 | ASTM D3763      |
| Thermal                                                | Nominal Value                     | Unit              | Test Method     |
| Heat Deflection Temperature                            |                                   |                   |                 |
| 0.45 MPa, Unannealed                                   | 102                               | °C                | ISO 75-2/Bf     |

|                     |                      |    |             |
|---------------------|----------------------|----|-------------|
| 1.8 MPa, Unannealed | 55.0                 | °C | ISO 75-2/Af |
| NOTE                |                      |    |             |
| 1.                  | Procedure B          |    |             |
| 2.                  | 48 hrs after molding |    |             |
| 3.                  | 2.0 mm/min           |    |             |
| 4.                  | 2.20 m/sec           |    |             |

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