

Technical Data Sheet

## Polyman (ASA) E/MI 0515 H UV

Acrylonitrile Styrene Acrylate  
LyondellBasell Industries  
Engineering Plastics

### Product Description

Impact and outdoor resistant ASA with increased heat resistance for extrusion and injection moulding

### General

|                   |                          |                        |
|-------------------|--------------------------|------------------------|
| Features          | • Good Impact Resistance | • High Heat Resistance |
| Processing Method | • Extrusion              | • Injection Molding    |

| Physical                                     | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
|----------------------------------------------|----------------------------|----------------------------|----------------------|
| Density                                      | 1.07 g/cm <sup>3</sup>     | 1.07 g/cm <sup>3</sup>     | ISO 1183/A           |
| Melt Volume-Flow Rate (MVR) (220°C/10.0 Kg)  | 5.0 cm <sup>3</sup> /10min | 5.0 cm <sup>3</sup> /10min | ISO 1133             |
| Water Absorption                             |                            |                            | ISO 62               |
| Equilibrium, 73°F (23°C), 50% Rh             | 1.2 %                      | 1.2 %                      |                      |
| Mechanical                                   | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Tensile Modulus                              | 334000 psi                 | 2300 MPa                   | ISO 527-1/1A/1       |
| Tensile Stress (Yield)                       | 6960 psi                   | 48.0 MPa                   | ISO 527-2/1A/50      |
| Tensile Strain (Yield)                       | 3.0 %                      | 3.0 %                      | ISO 527-2/1A/50      |
| Impact                                       | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Charpy Notched Impact Strength (73°F (23°C)) | 5.2 ft·lb/in <sup>2</sup>  | 11 kJ/m <sup>2</sup>       | ISO 179/1eA          |
| Charpy Unnotched Impact Strength             |                            |                            | ISO 179/1eU          |
| 73°F (23°C)                                  | No Break                   | No Break                   |                      |
| Notched Izod Impact (Area) (73°F (23°C))     | 6.19 ft·lb/in <sup>2</sup> | 13.0 kJ/m <sup>2</sup>     | ASTM D256            |
| Hardness                                     | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Ball Indentation Hardness (H 358/30)         | 13900 psi                  | 96.0 MPa                   | ISO 2039-1           |
| Thermal                                      | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Deflection Temperature Under Load            |                            |                            |                      |
| 66 Psi (0.45 Mpa), Unannealed                | 219 °F                     | 104 °C                     | ISO 75-2/Bf          |
| 264 Psi (1.8 Mpa), Unannealed                | 183 °F                     | 84.0 °C                    | ISO 75-2/ Af         |
| Vicat Softening Temperature                  |                            |                            |                      |
| --                                           | 217 °F                     | 103 °C                     | ISO 306/B50          |
| --                                           | 243 °F                     | 117 °C                     | ISO 306/A120         |
| Electrical                                   | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Surface Resistivity                          | > 1.0E+15 ohms             | > 1.0E+15 ohms             | IEC 60093            |
| Volume Resistivity                           | > 1.0E+13 ohms·m           | > 1.0E+13 ohms·m           | IEC 62631-3-1        |
| Comparative Tracking Index                   | 600 V                      | 600 V                      | IEC 60112            |
| Flammability                                 | Nominal Value (English)    | Nominal Value (SI)         | Test Method          |
| Burning Rate                                 |                            |                            |                      |
| 0.0787 In (2.00 Mm)                          | < 3.9 in/min               | < 100 mm/min               | ISO 3795             |
| 0.0787 In (2.00 Mm)                          | < 3.9 in/min               | < 100 mm/min               | FMVSS 302            |
| Flammability Classification                  |                            |                            | IEC 60695-11-10, -20 |
| 0.06 In (1.5 Mm)                             | HB                         | HB                         |                      |
| 0.12 In (3.0 Mm)                             | HB                         | HB                         |                      |

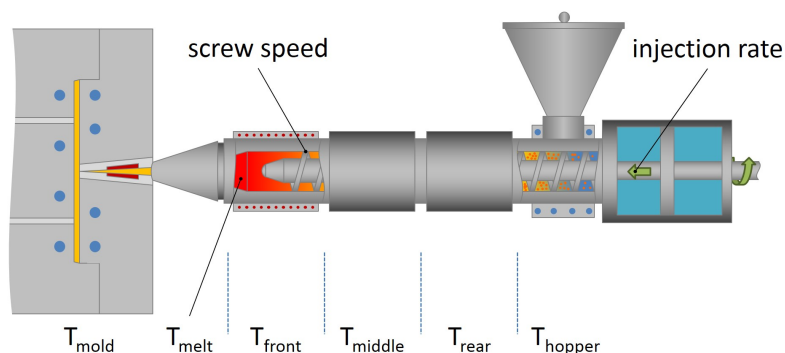
### Additional Information

- 1.) Not for use in food contact applications
- 2.) Not for use in medical or pharmaceutical applications

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Processing (Melt) Temp | 464 to 518 °F           | 240 to 270 °C      |
| Mold Temperature       | 104 to 176 °F           | 40 to 80 °C        |

### Notes

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