

## Technical Data Sheet

### Polyman ABS LP 320 GRY60605



Acrylonitrile Butadiene Styrene

#### Product Description

Medium impact ABS grade

#### Regulatory Status

For regulatory compliance information, see *Polyman ABS LP 320 GRY60605* [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                   |                            |
|-------------------|----------------------------|
| Status            | Commercial: Active         |
| Availability      | Africa-Middle East; Europe |
| Processing Method | Injection Molding          |
| Resin ID          | ABS                        |

| Typical Properties                                                   | Nominal Value | Units                   | Test Method |
|----------------------------------------------------------------------|---------------|-------------------------|-------------|
| <b>Physical</b>                                                      |               |                         |             |
| Melt Volume Flow Rate, (220 °C/10.0 kg)                              | 17            | cm <sup>3</sup> /10 min | ISO 1133    |
| Density                                                              | 1.04          | g/cm <sup>3</sup>       | ISO 1183    |
| <b>Mechanical</b>                                                    |               |                         |             |
| Tensile Stress at Yield, (Type 1A, 50 mm/min)                        | 45.7          | MPa                     | ISO 527-2   |
| Nominal Tensile Strain at Break, (50 mm/min, Type 1A)                | 5.4           | %                       | ISO 527-2   |
| Flexural Modulus, (2.0 mm/min)                                       | 2440          | MPa                     | ISO 178     |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                        | 2.5           | %                       | ISO 527-2   |
| Tensile Stress at Break, (Type 1A, 50 mm/min)                        | 35.0          | MPa                     | ISO 527-2   |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 2320          | MPa                     | ISO 527-1   |
| Flexural Stress                                                      |               |                         |             |
| (2.0 mm/min, 3.5%)                                                   | 67.2          | MPa                     | ISO 178     |
| (2.0 mm/min, 4.3%)                                                   | 68.0          | MPa                     | ISO 178     |
| <b>Impact</b>                                                        |               |                         |             |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 21            | kJ/m <sup>2</sup>       | ISO 179     |
| <b>Thermal</b>                                                       |               |                         |             |
| Vicat Softening Temperature                                          |               |                         |             |
| (B (50N), 50 °C/h)                                                   | 94.0          | °C                      | ISO 306     |
| (A (10N), 50 °C/h)                                                   | 105           | °C                      | ISO 306     |
| Deflection Temperature Under Load Unannealed (0.45 MPa)              | 80            | °C                      | ISO 75-2/B  |
| Deflection Temperature Under Load Unannealed (1.80 MPa)              | 75            | °C                      | ISO 75-2/A  |
| <b>Flammable</b>                                                     |               |                         |             |
| Burning Rate                                                         |               |                         |             |
| (2.00 mm)                                                            | <100          | mm/min                  | ISO 3795    |
| (2.00 mm)                                                            | <100          | mm/min                  | FMVSS 302   |

## Notes

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

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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