

## Technical Data Sheet

### *Polyman* (ABS) LP 320 EF BLK 72725



Acrylonitrile Butadiene Styrene

#### Product Description

Special grade

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)                              | 19            | 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)                        | 47.5          | MPa                     | ISO 527-2            |
| Nominal Tensile Strain at Break, (50 mm/min, Type 1A)                | 18            | %                       | ISO 527-2            |
| Tensile Strain at Yield, (Type 1A, 50 mm/min)                        | 2.5           | %                       | ISO 527-2            |
| Tensile Stress at Break, (Type 1A, 50 mm/min)                        | 36.3          | MPa                     | ISO 527-2            |
| Tensile Modulus, (1 mm/min, Type 1A)                                 | 2600          | MPa                     | ISO 527-1            |
| <b>Impact</b>                                                        |               |                         |                      |
| Charpy Impact Strength - Notched, (23 °C, Type 1, Edgewise, Notch A) | 8.6           | kJ/m <sup>2</sup>       | ISO 179              |
| <b>Thermal</b>                                                       |               |                         |                      |
| Vicat Softening Temperature, (B (50N), 50 °C/h)                      | 102           | °C                      | ISO 306              |
| <b>Flammable</b>                                                     |               |                         |                      |
| Burning Rate                                                         |               |                         |                      |
| (2.00 mm)                                                            | <100          | mm/min                  | ISO 3795             |
| (2.00 mm)                                                            | <100          | mm/min                  | FMVSS 302            |
| <b>UL Information</b>                                                |               |                         |                      |
| Flammability Classification, (1.5 mm)                                | HB            |                         | IEC 60695-11-10, -20 |
| UL File Number                                                       | E86615        |                         |                      |