

# POLYblend PC/ABS 45FS

Polycarbonate + ABS

Polykemi AB

Message:

PC/ABS-blend

| General Information                      |                |                   |                |
|------------------------------------------|----------------|-------------------|----------------|
| UL YellowCard                            | E122538-221295 | E122538-221296    |                |
| UL File Number                           | E122538        |                   |                |
| Physical                                 | Nominal Value  | Unit              | Test Method    |
| Density                                  | 1.08           | g/cm <sup>3</sup> | ISO 1183       |
| Melt Mass-Flow Rate (MFR) (240°C/5.0 kg) | 15             | g/10 min          | ISO 1133       |
| Molding Shrinkage                        |                |                   | ISO 294-4      |
| Across Flow                              | 0.50 to 0.70   | %                 |                |
| Flow                                     | 0.50 to 0.70   | %                 |                |
| Mechanical                               | Nominal Value  | Unit              | Test Method    |
| Tensile Stress                           | 54.0           | MPa               | ISO 527-2      |
| Tensile Strain (Yield)                   | 6.0            | %                 | ISO 527-2      |
| Flexural Modulus (23°C)                  | 2200           | MPa               | ISO 178        |
| Flexural Stress                          | 89.0           | MPa               | ISO 178        |
| Impact                                   | Nominal Value  | Unit              | Test Method    |
| Charpy Notched Impact Strength           |                |                   | ISO 179        |
| -30°C                                    | 14             | kJ/m <sup>2</sup> |                |
| 23°C                                     | 40             | kJ/m <sup>2</sup> |                |
| Charpy Unnotched Impact Strength         |                |                   | ISO 179        |
| -30°C                                    | No Break       |                   |                |
| 23°C                                     | No Break       |                   |                |
| Thermal                                  | Nominal Value  | Unit              | Test Method    |
| Heat Deflection Temperature <sup>1</sup> |                |                   |                |
| 0.45 MPa, Unannealed                     | 100            | °C                | ISO 75-2/B     |
| 0.45 MPa, Annealed                       | 102            | °C                | ISO 75-2/B     |
| 1.8 MPa, Unannealed                      | 85.0           | °C                | ISO 75-2/A     |
| 1.8 MPa, Annealed                        | 95.0           | °C                | ISO 75-2/A     |
| Vicat Softening Temperature              |                |                   |                |
| --                                       | 112            | °C                | ISO 306/A50    |
| --                                       | 100            | °C                | ISO 306/B50    |
| Ball Pressure Test (90°C)                | Pass           |                   | IEC 60695-10-2 |
| Flammability                             | Nominal Value  | Unit              | Test Method    |
| Flame Rating (1.60 mm)                   | HB             |                   | UL 94          |
| Glow Wire Ignition Temperature (3.20 mm) | 650            | °C                | IEC 60695-2-13 |

## NOTE

1. 120°C/hr

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