

# Keplex® 3300V

Polybutylene Terephthalate

Korea Engineering Plastics Co., Ltd

## Message:

KEPEX 3300V is an unfilled, non-blooming type flame retardant PBT.

Good flame resistance, mechanical and thermal properties.

It is applicable to flame resistance application of automotive, electrical and electronic parts.

| General Information                       |                                    |                   |             |
|-------------------------------------------|------------------------------------|-------------------|-------------|
| UL YellowCard                             | E120354-305620                     |                   |             |
| Features                                  | Flame Retardant                    |                   |             |
|                                           | Non-Blooming                       |                   |             |
| Uses                                      | Automotive Applications            |                   |             |
|                                           | Electrical Parts                   |                   |             |
|                                           | Electrical/Electronic Applications |                   |             |
| Forms                                     | Pellets                            |                   |             |
| Physical                                  | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                          | 1.44                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (250°C/2.16 kg) | 35                                 | g/10 min          | ASTM D1238  |
| Molding Shrinkage - Flow (3.00 mm)        | 1.8 to 2.5                         | %                 | ASTM D955   |
| Hardness                                  | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness (R-Scale)               | 120                                |                   | ASTM D785   |
| Mechanical                                | Nominal Value                      | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)            | 58.8                               | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)          | 10                                 | %                 | ASTM D638   |
| Flexural Modulus (23°C)                   | 2940                               | MPa               | ASTM D790   |
| Flexural Strength (23°C)                  | 93.2                               | MPa               | ASTM D790   |
| Impact                                    | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (23°C)                | 39                                 | J/m               | ASTM D256   |
| Thermal                                   | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load         |                                    |                   | ASTM D648   |
| 0.45 MPa, Unannealed                      | 150                                | °C                |             |
| 1.8 MPa, Unannealed                       | 50.0                               | °C                |             |
| Melting Temperature                       | 220                                | °C                | DSC         |
| Flammability                              | Nominal Value                      |                   | Test Method |
| Flame Rating (0.800 mm)                   | V-0                                |                   | UL 94       |
| Injection                                 | Nominal Value                      | Unit              |             |
| Hopper Temperature                        | 230 to 250                         | °C                |             |

|                    |             |    |
|--------------------|-------------|----|
| Rear Temperature   | 230 to 250  | °C |
| Middle Temperature | 230 to 250  | °C |
| Front Temperature  | 230 to 250  | °C |
| Nozzle Temperature | 230 to 250  | °C |
| Mold Temperature   | 40.0 to 100 | °C |

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