

# DURANEX® 407EP-1

## Polyplastics - Polybutylene Terephthalate

### General Information

#### Product Description

Flame Retardant, Low Gas Generation

Unfilled, High Toughness

#### General

|                               |                   |                  |                 |
|-------------------------------|-------------------|------------------|-----------------|
| Additive                      | • Flame Retardant |                  |                 |
| Features                      | • Flame Retardant | • High Toughness | • Low Emissions |
| UL File Number                | • E213445         |                  |                 |
| Forms                         | • Pellets         |                  |                 |
| Part Marking Code (ISO 11469) | • >PBT FR(17)<    |                  |                 |

### Properties <sup>1</sup>

| Physical   | Nominal Value | Unit                  | Test Method |
|--|---------------|-----------------------|-------------|
| Density  | 1.42          | g/cm <sup>3</sup>     | ISO 1183    |
| Water Absorption (24 hr, 73°F, 0.0394 in)                | 0.20          | %                     | ISO 62      |
| Mechanical   | Nominal Value | Unit                  | Test Method |
| Tensile Stress   | 7980          | psi                   | ISO 527-2   |
| Tensile Strain (Break)                                   | 16            | %                     | ISO 527-2   |
| Flexural Modulus   | 334000        | psi                   | ISO 178     |
| Flexural Stress  | 12000         | psi                   | ISO 178     |
| Impact   | Nominal Value | Unit                  | Test Method |
| Charpy Notched Impact Strength (73°F)                    | 1.5           | ft·lb/in <sup>2</sup> | ISO 179/1eA |
| Thermal  | Nominal Value | Unit                  | Test Method |
| Deflection Temperature Under Load<br>264 psi, Unannealed | 169           | °F                    | ISO 75-2/A  |
| Flammability   | Nominal Value | Unit                  | Test Method |
| Flame Rating   | V-0           |                       | UL 94       |
| Additional Information                                   | Nominal Value | Unit                  |             |
| Color Number   | EF2001/ED3002 |                       |             |