

DURANEX® 457EV

Polyplastics - Polycarbonate + PBT

General Information

Product Description

Higher Impact Resistant

Unfilled, Flame Retardant, Higher Comparative Tracking Index

General

| | | | |
|-------------------------------|------------------------|--------------------------|-----------------|
| Material Status | • Commercial: Active | | |
| Availability | • Africa & Middle East | • Europe | • North America |
| | • Asia Pacific | • Latin America | |
| Additive | • Flame Retardant | | |
| Features | • Flame Retardant | • High Impact Resistance | |
| UL File Number | • E213445 | | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | | |
| Part Marking Code (ISO 11469) | • >PBT+PC-I-FR(17)< | | |

 Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|---|---------------|-----------------------|-----------------|
| Density | 1.37 | g/cm ³ | ISO 1183 |
| Water Absorption (24 hr, 73°F, 0.0394 in) | 0.20 | % | ISO 62 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Stress | 6670 | psi | ISO 527-2 |
| Nominal Tensile Strain at Break | 13 | % | ISO 527-2 |
| Flexural Modulus | 286000 | psi | ISO 178 |
| Flexural Stress | 10600 | psi | ISO 178 |
| Impact | Nominal Value | Unit | Test Method |
| Charpy Notched Impact Strength (73°F) | 10 | ft·lb/in ² | ISO 179/1eA |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (264 psi, Unannealed) | 167 | °F | ISO 75-2/A |
| CLTE - Flow (73 to 131°F) | 5.0E-5 | in/in/°F | Internal Method |
| CLTE - Transverse (73 to 131°F) | 5.6E-5 | in/in/°F | Internal Method |
| Electrical | Nominal Value | Unit | Test Method |
| Volume Resistivity | 5.0E+14 | ohms·cm | IEC 60093 |
| Electric Strength (0.118 in) | 510 | V/mil | IEC 60243-1 |
| Comparative Tracking Index | 600 | V | IEC 60112 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (0.06 in) | V-0 | | UL 94 |
| Additional Information | Nominal Value | Unit | Test Method |
| Color Number | EF2001/ED3002 | | |

