

OnFlex™ S FR 70A-3S1890

Thermoplastic Elastomer

PolyOne Corporation

Message:

OnFlex™-S FR thermoplastic elastomer polymer is mixed with hydrogenated styrene block copolymer. This series of polymers have high-efficiency halogen-based flame retardant systems that comply with the RoHS Directive on Restricting the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, so they are especially flame retardant. And, OnFlex™-S FR polymer has excellent mechanical properties, good high temperature compression performance and processability, and a wide range of hardness.

| General Information | | | |
|--|------------------------------------|-------------------|----------------|
| Features | Halogenated | | |
| | Flame retardancy | | |
| Uses | Electrical/Electronic Applications | | |
| | Industrial application | | |
| | Application in Automobile Field | | |
| | Business equipment | | |
| | General | | |
| RoHS Compliance | RoHS compliance | | |
| Forms | Particle | | |
| Processing Method | Injection molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 1.20 | g/cm ³ | ISO 1183 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore A) | 70 | | ISO 868 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress | | | ISO 37 |
| 100% strain | 2.70 | MPa | ISO 37 |
| 300% strain | 5.20 | MPa | ISO 37 |
| Tensile Stress (Break) | 8.20 | MPa | ISO 37 |
| Tensile Elongation (Break) | 500 | % | ISO 37 |
| Tear Strength | 30 | kN/m | ISO 34-1 |
| Compression Set | | | ISO 815 |
| 23°C, 72 hr | 19 | % | ISO 815 |
| 70°C, 22 hr | 35 | % | ISO 815 |
| 100°C, 22 hr | 53 | % | ISO 815 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating (1.50 mm) | V-0 | | UL 94 |
| Glow Wire Flammability Index (2.00 mm) | 960 | °C | IEC 60695-2-12 |
| Oxygen Index | 25 | % | ISO 4589-2 |

| Additional Information | Nominal Value | |
|------------------------|--|------|
| General Material Type | Styrene thermoplastic elastomers (TES) | |
| 各项属性值是采用注射模制基板测量得出. | | |
| Injection | Nominal Value | Unit |
| Processing (Melt) Temp | 200 - 220 | °C |
| Mold Temperature | 40.0 - 60.0 | °C |
| Injection Rate | Fast | |

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