

Viprene™ P45A-22U-BLK

Alliance Polymers & Services - Thermoplastic Vulcanizate

General Information

Product Description

Viprene™ P45A-22U-BLK is a UV and Heat Stabilized TPV (thermoplastic vulcanizate elastomer). This material can be easily processed by extrusion or injection molding. It exhibits easy flowing characteristics.

General

| | | | |
|-------------------|-------------------|---------------------|----------------|
| Additive | • Heat Stabilizer | • UV Stabilizer | |
| Features | • Good Flow | • Heat Stabilized | • UV Resistant |
| Appearance | • Black | | |
| Forms | • Pellets | | |
| Processing Method | • Extrusion | • Injection Molding | |

Properties¹

| Physical | Nominal Value | Unit | Test Method |
|--------------------------------|---------------|-------------------|-------------|
| Density | 0.970 | g/cm ³ | ISO 2781 |
| Elastomers | Nominal Value | Unit | Test Method |
| Tensile Stress (100% Strain) | 218 | psi | ISO 37 |
| Tensile Stress (300% Strain) | 421 | psi | ISO 37 |
| Tensile Stress (Break) | 769 | psi | ISO 37 |
| Tensile Elongation (Break) | 550 | % | ISO 37 |
| Tear Strength | 171 | lbf/in | ISO 34-1 |
| Compression Set (158°F, 22 hr) | 20 | % | ASTM D395B |
| Hardness | Nominal Value | Unit | Test Method |
| Shore Hardness (Shore A) | 45 | | ISO 868 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -76.0 | °F | ASTM D746 |
| Flammability | Nominal Value | Unit | Test Method |
| Flame Rating | | | UL 94 |
| 0.04 in | | HB | |
| 0.06 in | | HB | |
| 0.12 in | | HB | |