

TECHNICAL DATA SHEET

Sarlink® 3145D

Teknor Apex Co.

TPV

Processing

Injection molding, Profile extrusion, Other extrusion, Blow molding

Special Characteristics

U.V. stabilized or stable to weather

Features

Fatigue resistance, Good adhesion

Chemical Resistance

General chemical resistance

Applications

Automotive, General purpose

Product Text

Product Information

SARLINK TPV 3100 series are engineered materials designed primarily for general purpose, automotive and industrial applications requiring a good balance of thermal, mechanical, and physical properties. SARLINK 3145D, available in NAT and BLK, is a high hardness, low density, multi-purpose thermoplastic vulcanizate that can be processed by injection molding, blow molding or extrusion for applications such as grips, seals, gaskets, profiles, hose & tubes, bellows, and other articles.

| Property | Value | Unit | Standard |
|---|-------|--------|----------|
| Tensile properties (Cross Flow Direction) | | | ISO 37 |
| Tensile strength at break | 22,5 | MPa | |
| Modulus at 100% elongation | 12,8 | MPa | |
| Elongation at break | 700 | % | |
| Hot air aging (168h/150°C, Cross Flow Direction) | | | ISO 188 |
| Change in hardness | 2 | points | |
| Change in tensile strength at break | -5 | % | |
| Change in modulus at 100% elongation | 8 | % | |
| Change in elongation at break | -11 | % | |
| Hot air aging (1000h/135°C, Cross Flow Direction) | | | ISO 188 |
| Change in hardness | 1 | points | |
| Change in tensile strength at break | 2 | % | |
| Change in modulus at 100% elongation | 16 | % | |
| Change in elongation at break | -11 | % | |

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|---|-----|------|------------------------|
| Volume swell (70h/125°C in IRM 903 oil) | 52 | % | ISO 1817 |
| Apparent shear viscosity @ 206 1/s, 200°C | 310 | Pa.s | ISO 11443 Capillary |

| Mechanical Properties | Value | Unit | Standard |
|-------------------------------|-------|------|------------|
| Shore D hardness | 50 | | ISO 7619-1 |
| Stress at 100% elongation | 15.5 | MPa | ISO 37 |
| Strain at break TPE | 400 | % | ISO 37 |
| Stress at break TPE | 19.4 | MPa | ISO 37 |
| Compression set at 23 °C, 24h | 57 | % | |
| Compression set at 70 °C, 24h | 70 | % | ISO 815 |

| Other Properties | Value | Unit | Standard |
|------------------|-------|-------------------|----------|
| Density | 940 | kg/m ³ | ISO 1183 |