

Performance characteristics of EPDM rubber and more without the design & processing limitations.

Sarlink® is a Thermoplastic with EPDM particles embedded in a polypropylene (PP) matrix, giving the conventional processing of a PP, with the excellent elastic properties of cured EPDM rubber.

Typical Sarlink® Applications

- plumbing gaskets & seals ● flexible connectors ● filtration seals
- low pressure diaphragms ● automotive air ducts ● body plugs
- grommets ● automotive window seals ● castor wheels ● sporting goods
- electrical connectors ● cable coverings ● medical devices
- 2-shot over-moulded components with PP ● soft touch handles and grips

Sarlink® 3000 Series

Design flexibility and cost savings

- Highly cross linked EPDM
- Higher melt elasticity for blow moulding
- Better flow properties for injection moulding
- Best TPV surface appearance for cosmetic parts

Sarlink® 4000 Series

Extreme properties & performance

- Fully cross linked EPDM
- Best elastic properties
- Improved compression set and creep
- Improved chemical resistance
- Improved UV & ozone resistance
- Improved flex fatigue resistance

Sarlink® Specialities

- Food and medical grades
- Water compliant grades
- UL94 V0 flame retardant grades
- Ultra high flow grades for extremely thin wall sections

Typical Sarlink® Properties

| Properties* | Hardness | Density | Tensile strength | Elongation at break | Compression set | |
|-------------|----------|-------------------|------------------|---------------------|-----------------|----------|
| Standard | ISO 868 | ISO1183 | ISO 37 (II) | ISO 37 (II) | ISO 815 | ISO 815 |
| Conditions | 23°C/5s | 23°C | 23°C | 23°C | 72h@23°C | 22h@70°C |
| Units | Shore | g/cm ³ | MPa | % | % | % |
| 3150 | 56A | 0.95 | 5.3 | 534 | 27 | 37 |
| 3180 | 86A | 0.95 | 9.2 | 659 | 41 | 53 |
| 4155 | 56A | 0.96 | 5.1 | 520 | 22 | 29 |
| 4175 | 75A | 0.96 | 9.9 | 677 | 36 | 45 |

* Property values listed are typical values from tests on injection moulded plaques

Sarlink® Processing & Handling Guide*

| Grade | Melt Temp | Barrel Temperatures | | | | Mould Temp | Screw Speed | Back Pressure |
|---------|-----------|---------------------|-----------|-----------|-----------|------------|-------------|---------------|
| | | Rear | Middle | Front | Nozzle | | | |
| | °C | °C | °C | °C | °C | °C | rpm | MPa |
| General | 185 ~ 220 | 180 ~ 215 | 180 ~ 215 | 180 ~ 215 | 185 ~ 220 | 10 ~ 55 | 100 ~ 200 | 0.1 ~ 1 |

* This should only be used as a guide as part geometry, thickness, processing temperatures and rates will affect final cycle conditions

Purging

Empty the barrel for idle periods of 15 mins or longer. Purge thoroughly before and after use of this product with polyethylene or polypropylene.

Recycling / Re-grind

Sarlink® can be re-processed. Physical properties are generally not degraded. Dry re-grind prior to re-processing.

Colouring

The use of polyolefin based masterbatches is recommended; apply back pressure to disperse colour. For special colour effects contact Distrupol Colour.

Storage & Handling

Available in 20 kg bags (up to 1000 kg per pallet). Sarlink® has a storage life at normal temperatures of several years.

Sarlink® is a DSM registered trademark

Please refer to the individual processing guides and Material Safety Data Sheets for each grade prior to usage.

Full colour-matching service available.

