+135-3858-6433 (GuangDong)
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TEKNOR APEX

# Sarlink® TPV 3790N-H2

## Teknor Apex Company - Thermoplastic Vulcanizate

### General Information

**Product Description**

Sarlink® 3790N-H2 is a high hardness, highly engineered thermoplastic vulcanizate designed for use in extrusion or injection molding processes. Sarlink® 3790N-H2 has good UV resistance and colorfastness. It is colorable and suitable for a variety of construction and automotive applications.

| General | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Availability | • Asia Pacific<br>• Europe | • Latin America<br>• North America | |
| Features | • Good Adhesion<br>• Good Colorability<br>• Good Processability | • Good Surface Finish<br>• High Hardness<br>• Sunlight Resistant | • UV Resistant |
| Uses | • Automotive Applications<br>• Construction Applications | • Industrial Applications<br>• Profiles | • Windows & Doors |
| RoHS Compliance | • RoHS Compliant | | |
| Appearance | • Natural Color | • Opaque | |
| Forms | • Pellets | | |
| Processing Method | • Injection Molding | • Profile Extrusion | |

### ASTM & ISO Properties [1]

| Physical | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Density / Specific Gravity | 0.950 | | ASTM D792 |
| **Elastomers** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Stress (100% Strain) | 1050 | psi | ASTM D412 |
| Tensile Strength (Break) | 2150 | psi | ASTM D412 |
| Tensile Elongation (Break) | 690 | % | ASTM D412 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore A, 5 sec, Injection Molded) | 94 | | ASTM D2240 |

### Processing Information

| Injection | Nominal Value | Unit |
|---|---|---|
| Rear Temperature | 356 to 419 | °F |
| Middle Temperature | 356 to 419 | °F |
| Front Temperature | 356 to 419 | °F |
| Nozzle Temperature | 369 to 428 | °F |
| Processing (Melt) Temp | 365 to 428 | °F |
| Mold Temperature | 50 to 131 | °F |
| Back Pressure | 14.5 to 145 | psi |
| Screw Speed | 100 to 200 | rpm |

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| Extrusion | Nominal Value | Unit |
|---|---|---|
| Drying Temperature | 176 | °F |
| Drying Time | 3.0 | hr |
| Cylinder Zone 1 Temp. | 356 to 392 | °F |
| Cylinder Zone 2 Temp. | 356 to 401 | °F |
| Cylinder Zone 3 Temp. | 369 to 410 | °F |
| Cylinder Zone 4 Temp. | 369 to 410 | °F |
| Cylinder Zone 5 Temp. | 369 to 410 | °F |
| Melt Temperature | 383 to 419 | °F |
| Die Temperature | 383 to 419 | °F |

**Extrusion Notes**

Material should be dried as shown prior to processing

Screen Pack: 20 to 60 mesh
Screw: general purpose
Compression Ratio: 3:1

### Notes

[1] Typical properties: these are not to be construed as specifications.