# Polene EVA N 8038

Ethylene Vinyl Acetate Copolymer

**TPI Polene Public Company Limited**

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Technical Data

## Product Description

Polene EVA N 8038 is an Ethylene Vinyl Acetate Copolymer (EVA) material. It is available in Asia Pacific or North America for blow molding, calendering, or injection molding. Primary attribute of Polene EVA N 8038: Low Temperature Resistant.

Typical applications include:

- Consumer Goods
- Food Contact Applications
- Sheet

## General

| | | | |
|---|---|---|---|
| Material Status | • Commercial: Active | | |
| Literature [1] | • Technical Datasheet (English) | | |
| Search for UL Yellow Card | • Polene EVA | | |
| Availability | • Asia Pacific | • North America | |
| Features | • Foamable | • High Elasticity | • Low Temperature Resistant |
| Uses | • Footwear | • Sheet | • Toys |
| Agency Ratings | • FDA 21 CFR 177.1350 | | |
| Processing Method | • Blow Molding | • Calendering | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|---|---|---|
| Density | 0.941 g/cm³ | 0.941 g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.3 g/10 min | 2.3 g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 18.0 wt% | 18.0 wt% | Internal Method |
| **Mechanical** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Tensile Strength | | | ASTM D638 |
| Yield | 653 psi | 4.50 MPa | |
| Break | 3480 psi | 24.0 MPa | |
| Tensile Elongation (Break) | 820 % | 820 % | ASTM D638 |
| **Hardness** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Durometer Hardness (Shore D) | 37 | 37 | DIN 53505 |
| **Thermal** | **Nominal Value (English)** | **Nominal Value (SI)** | **Test Method** |
| Vicat Softening Temperature | 144 °F | 62.0 °C | ASTM D1525 |

| Injection | Nominal Value (English) | Nominal Value (SI) |
|---|---|---|
| Processing (Melt) Temp | 266 to 356 °F | 130 to 180 °C |

### Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

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





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