

Technical Data Sheet

Hifax TRS 123D NAT

Polypropylene Compounds

Product Description

Hifax TRS 123D NAT medium melt flow, 1000 MPa flexural modulus, natural, reactor grade thermoplastic elastomeric olefin (TEO) resin has an excellent balance of impact, stiffness, paintability, and processability that is typically used for all-terrain vehicle (ATV) components. It is based on material produced from LyondellBasell's proprietary Catalloy process.

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| Status | Commercial: Active |
| Availability | North America |
| Application | Body Panels; Exterior Automotive Applications; Sports, Leisure & Toys |
| Market | Outdoor Equipment |
| Processing Method | Injection Molding |
| Attribute | Good Colorability; Good Moldability; Good Processability; Good Stiffness; High Impact Resistance; High Shrinkage; Medium Flow; Paintable |

| Typical Properties | Nominal Value | English Units | Nominal Value | SI Units | Test Method |
|---|---------------|-------------------|---------------|-------------------|---------------|
| Physical | | | | | |
| Melt Flow Rate, (230 °C/2.16 kg) | 17 | g/10 min | 17 | g/10 min | ASTM D1238 |
| Density, (23 °C, Method A) | 0.89 | g/cm ³ | 0.89 | g/cm ³ | ISO 1183-1 |
| Mechanical | | | | | |
| Flexural Modulus, (23 °C) | | | 1000 | MPa | ISO 178 |
| Tensile Stress at Yield, (23 °C) | | | 18 | MPa | ISO 527-1, -2 |
| Tensile Strain at Yield, (23 °C) | 8 | % | 8 | % | ISO 527-1, -2 |
| Impact | | | | | |
| Gardner Impact, (-30 °C, Geometry GC) | 225 | in-lbs | | | ASTM D5420 |
| Multi-axial Impact Strength, (-30 °C, 2.2 m/s, 3.2 mm plaque) Energy at max load (ductile failure mode). | | | 25 | J | ASTM D3763 |
| Additional Information | | | | | |
| Mold Shrinkage | | | | | ISO 294-4 |
| Please contact LyondellBasell for shrinkage recommendations. | | | | | |