

## Technical Data Sheet

### Hifax TRS 123D Black



Polypropylene Compounds

#### Product Description

Hifax TRS 123D Black medium melt flow, 1000 MPa flexural modulus, 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 from LyondellBasell's proprietary Catalloy process.

<b>Application</b>	Body Panels; Exterior Automotive Applications; Sports, Leisure & Toys
<b>Market</b>	Outdoor Equipment
<b>Processing Method</b>	Injection Molding
<b>Attribute</b>	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
<b>Physical</b>					
Melt Flow Rate, (230 °C/2.16 kg)	17	g/10 min	17	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.90	g/cm <sup>3</sup>	0.90	g/cm <sup>3</sup>	ISO 1183-1
<b>Mechanical</b>					
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
<b>Impact</b>					
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
<b>Additional Information</b>					
Mold Shrinkage					ISO 294-4
Please contact LyondellBasell for shrinkage recommendations.					