

Technical Data Sheet

Hifax TYC 1168P 501F DARK SMOKE GRAY



Polypropylene Compounds

Product Description

Hifax TYC 1168P 501F DARK SMOKE GRAY very high melt flow for easy and fast molding and has low density, which reduces part weight. It has good stiffness and excellent cold temperature impact. It is typically used for mold-in color exterior trim and fascia applications.

Regulatory Status

For regulatory compliance information, see *Hifax* TYC 1168P 501F DARK SMOKE GRAY [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	North America
Application	Automotive Parts; Bumpers; Exterior Automotive Applications
Market	Automotive
Processing Method	Injection Molding
Attribute	Good Dimensional Stability; Good Flow; Good Impact Resistance; Good Moldability; High Stiffness; Low Shrinkage; Low Temperature Impact Resistance

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	35	g/10 min	ASTM D1238
Density, (23 °C, Method A)	0.98	g/cm ³	ISO 1183-1
Mechanical			
Flexural Modulus, (23 °C)	1600	MPa	ISO 178
Tensile Stress at Yield, (23 °C)	18	MPa	ISO 527-1, -2
Tensile Strain at Break, (23 °C)	>500	%	ISO 527-1, -2
Impact			
Charpy Impact Strength - Notched			
(23 °C)	54	kJ/m ²	ISO 179
(-30 °C)	5.1	kJ/m ²	ISO 179
Multi-axial Impact Strength, (-30 °C, 2.2 m/s, 3.2 mm plaque)	22	J	ASTM D3763
Failure Mode Ductile.			
Additional Information			
Mold Shrinkage			ISO 294-4
Please contact LyondellBasell for shrinkage recommendations.			

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

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Recipient Tracking #:
Request #: 909031

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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- (i) U.S. FDA Class I or II Medical Devices; Health Canada Class I, II or III Medical Devices; European Union Class I or II Medical Devices;
- (ii) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned medical devices;
- (iii) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration;
- (iv) tobacco related products and applications, electronic cigarettes and similar devices.
- (v) safety components in automotive applications, for example: air bags, air bag unit housings and covers, seat belt mechanisms, brake systems, pedals and pedal supports, steering systems.

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- (i) U.S. FDA Class III Medical Devices; Health Canada Class IV Medical Devices; European Class III Medical Devices;
- (ii) applications involving permanent implantation into the body;
- (iii) life-sustaining medical applications.

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