MAGNUM™ 375 HP
ABS Resin

Overview

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MAGNUM™ 375HP is a High Heat, Low Gloss, Medium Impact ABS resin for injection molded automotive interior trim applications.

Benefits:

- Lot to lot consistency allowing for optimal machine parameters settings from the start
- Low VOC allowing a better interior air quality facing increasing regulatory and OEMs constraints.
- Heat stability during wide range of processing temperatures: enhanced part design freedom

Applications:

- Main interior and exterior automotive applications
- Mid-consoles
- Door panels
- Door handles
- Pillars

Automotive Specifications

- 3M 11-0003-5762-1
- GM GMW15572P-ABS-T2
- STELLANTIS MS-DB-191 CPN 3826
- STELLANTIS MS-DB-300 CPN 4573
- VOLKSWAGEN TL 527
- FORD WSS-M4D690-B1
- STELLANTIS MS-DB-191 CPN 1734
- STELLANTIS MS-DB-300 CPN 4412
- TOYOTA TSM 5512G-2B

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.05	g/cm³	1.05	g/cm³	ISO 1183
Apparent (Bulk) Density	0.68	g/cm³	0.68	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR)					ISO 1133
220°C/10.0 kg	7.0	g/10 min	7.0	g/10 min	
230°C/3.8 kg	2.4	g/10 min	2.4	g/10 min	
Molding Shrinkage	4.0E-3 to 7.0E-3	in/in	0.40 to 0.70	%	ISO 294-4
Mechanical	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Tensile Modulus	305000	psi	2100	MPa	ISO 527-1/1
Tensile Stress (Yield)	6960	psi	48.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	4.3	%	4.3	%	ISO 527-2/50
Flexural Modulus [1, 2]	319000	psi	2200	MPa	ISO 178
Flexural Stress [1, 3]	9280	psi	64.0	MPa	ISO 178
Impact	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Charpy Notched Impact Strength					ISO 179/1eA
73°F (23°C), Injection Molded	9.5	ft·lb/in²	20	kJ/m²	
Notched Izod Impact Strength					ISO 180/1A
-22°F (-30°C)	4.8	ft·lb/in²	10	kJ/m²	
73°F (23°C)	12	ft·lb/in²	25	kJ/m²	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Deflection Temperature Under Load					
66 psi (0.45 MPa), Unannealed	216	°F	102	°C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	185	°F	85.0	°C	ISO 75-2/A
Vicat Softening Temperature	225	°F	107	°C	ISO 306/B50

Additional Information
Mass balance versions (bio-based (BIO) or chemically recycled (CR)) of this product are chemically and physically indistinguishable to the standard fossil grade. This technical data sheet applies to all versions. Letters of sameness are available upon request.

Injection	Nominal Value	(English)	Nominal Value	(SI)
Drying Temperature	176 to 194	°F	80 to 90	°C
Drying Time	2.0 to 4.0	hr	2.0 to 4.0	hr