TRINSEO™

MAGNUM™ 8434
ABS Resin

Overview

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MAGNUM™ 8434 is a medium heat ABS. It is suitable for interior automotive applications requiring high gloss.

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:
- Various covered interior trims
- Painted Grilles and Other Exterior Trims

Automotive Specifications
- FORD WSS-M4D827-A3 Color: Natural
- GM QK 002022 Color: Natural

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density	1.05	g/cm³	1.05	g/cm³	ISO 1183
Apparent (Bulk) Density	0.65	g/cm³	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13	g/10 min	13	g/10 min	ISO 1133
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	348000	psi	2400	MPa	ISO 527-1/1
Tensile Stress (Yield)	6530	psi	45.0	MPa	ISO 527-2/50
Tensile Strain					ISO 527-2/50
Yield	2.7	%	2.7	%	
Break	15	%	15	%	
Flexural Modulus [1]	334000	psi	2300	MPa	ISO 178
Flexural Stress [1]	10200	psi	70.0	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	8.6	ft·lb/in²	18	kJ/m²	
Thermal	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Vicat Softening Temperature	212	°F	100	°C	ISO 306/B50
Flammability	**Nominal Value**	**(English)**	**Nominal Value**	**(SI)**	**Test Method**
Flame Rating [2]					UL 94
0.06 in (1.5 mm)	HB		HB		
0.12 in (3.0 mm)	HB		HB		

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