



Acran Boğaziçi Kimya A.Ş. Mahmutbey Mah. (İstoç Tic. Merk) 2412 Sk. (C Plaza) No:2 İç Kapı No : 56,57,58 / Bağcılar İstanbul



# MAGNUM™ 8434 **ABS Resin**

## Overview

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

Benefits:

Overview:

- · Lot to lot consistency allowing for optimal machine parameters settings from the start
- Self-coloring enabling improvement of costs by using less pigments and lowering your logistic costs
- · 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 interior trims
- [TBD]

Automotive Specifications

• FORD WSS-M4D827-A3 Color: Natural

• GM QK 002022 Color: Natural

Physical	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Density		g/cm <sup>3</sup>	1.05	g/cm <sup>3</sup>	ISO 1183/B
Apparent Density	0.65	g/cm <sup>3</sup>	0.65	g/cm <sup>3</sup>	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13	g/10 min	13	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	0.793	in³/10min	13.0	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage - Flow	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					ISO 527-2
0.126 in (3.20 mm), Injection Molded	305000	psi	2100	MPa	
Tensile Stress					
Yield, 0.126 in (3.20 mm), Injection Molded	6820	psi	47.0	MPa	ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	6960	psi	48.0	MPa	ISO 527-2/100
Tensile Strain					ISO 527-2/50
Yield, 0.126 in (3.20 mm), Injection Molded	2.7	%	2.7	%	ISO 527-2/100
Flexural Modulus <sup>1, 2</sup>					ISO 178
0.126 in (3.20 mm), Injection Molded	305000	psi	2100	MPa	
Flexural Stress <sup>1, 2</sup>					ISO 178
0.126 in (3.20 mm), Injection Molded	9430	psi	65.0	MPa	
Impact	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Charpy Notched Impact Strength					
-22°F (-30°C), Injection Molded	4.8	ft·lb/in²	10	kJ/m²	ISO 179/1eA
-22°F (-30°C), Injection Molded	3.3	ft·lb/in²	7.0	kJ/m²	ISO 179/2C
73°F (23°C), Injection Molded	5.7	ft·lb/in²	12	kJ/m²	ISO 179/2C
73°F (23°C), Injection Molded	9.0	ft·lb/in²	19	kJ/m²	ISO 179/1eA
Notched Izod Impact Strength					ISO 180/A
-22°F (-30°C), Injection Molded	4.3	ft·lb/in <sup>2</sup>	9.0	kJ/m²	
73°F (23°C), Injection Molded	10	ft·lb/in <sup>2</sup>	21	kJ/m²	
Thermal	Nominal Value	(English)	Nominal Value	(SI)	Test Method
Heat Deflection Temperature					ISO 75-2/A
264 psi (1.8 MPa), Annealed	216	°F	102	°C	
Vicat Softening Temperature	214	°F	101	°C	ISO 306/B50

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Flammability	Nominal Value	(English)	Nominal Value	(SI)	Test Method	
Burning Rate <sup>3</sup> (0.0787 in (2.00 mm))	1.8	in/min	45	mm/min	ISO 3795	
Flame Rating <sup>3</sup>					UL 94	
0.06 in (1.5 mm)	HB		HB			
0.12 in (3.0 mm)	HB		HB			
Carbon Emission <sup>3</sup>	12.0	hð\ð	12.0	µg/g	VDA 277	

## Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> 0.079 in/min (2.0 mm/min)

<sup>2</sup> 3-points

<sup>3</sup> This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.



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