



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 ³ | 1.05 | g/cm ³ | ISO 1183/B |
| Apparent Density | 0.65 | g/cm ³ | 0.65 | g/cm ³ | 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 ³ /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 ^{1, 2} | | | | | ISO 178 |
| 0.126 in (3.20 mm), Injection Molded | 305000 | psi | 2100 | MPa | |
| Flexural Stress ^{1, 2} | | | | | 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 ² | 9.0 | kJ/m² | |
| 73°F (23°C), Injection Molded | 10 | ft·lb/in ² | 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 ³ (0.0787 in (2.00 mm)) | 1.8 | in/min | 45 | mm/min | ISO 3795 | |
| Flame Rating ³ | | | | | UL 94 | |
| 0.06 in (1.5 mm) | HB | | HB | | | |
| 0.12 in (3.0 mm) | HB | | HB | | | |
| Carbon Emission ³ | 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.

¹ 0.079 in/min (2.0 mm/min)

² 3-points

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



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