

MAGNUM™ 8434

ABS Resin

Trinseo

Message:

MAGNUM™ 8434 is a product which combines high gloss with medium-high heat performance. It is suitable for a wide range of applications. The mass (continuous process) ABS technology ensures an ABS resin that combines excellent processability with a stable light base colour that is ideal for self-colouring.

Applications:

Household appliances

Consumer goods

Toys

Automotive interior trim

Chrome

Electroplating

General Information			
UL YellowCard	E162447-238273	E73656-249580	
Features	Good Processability		
	High Gloss		
	High Heat Resistance		
Uses	Appliances		
	Automotive Applications		
	Automotive Interior Parts		
	Toys		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density			
--	1.05	g/cm ³	ISO 1183/B
--	1050	kg/m ³	ISO 1183 ¹
Apparent Density	0.65	g/cm ³	ISO 60
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	13	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	13.0	cm ³ /10min	ISO 1133
Molding Shrinkage - Flow	0.40 to 0.70	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
3.20 mm, Injection Molded	2100	MPa	ISO 527-2
--	2200	MPa	ISO 527-2 ²
Tensile Stress			
Yield, 3.20 mm, Injection Molded	47.0	MPa	ISO 527-2/50

Yield, 3.20 mm, Injection Molded	48.0	MPa	ISO 527-2/100
Yield	45.0	MPa	ISO 527-2 ³
Tensile Strain (Yield, 3.20 mm, Injection Molded)	2.7	%	ISO 527-2/50, ISO 527-2/100
Nominal strain at break	25	%	ISO 527-2 ⁴
Flexural Modulus (3.20 mm, Injection Molded)	2100	MPa	ISO 178
Flexural Stress (3.20 mm, Injection Molded)	65.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			
-30°C, Injection Molded	10	kJ/m ²	ISO 179/1eA
-30°C, Injection Molded	7.0	kJ/m ²	ISO 179/2C
23°C, Injection Molded	12	kJ/m ²	ISO 179/2C
23°C, Injection Molded	19	kJ/m ²	ISO 179/1eA
Charpy impact strength			ISO 179/1eU ⁵
-30°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/A
-30°C, Injection Molded	9.0	kJ/m ²	
23°C, Injection Molded	21	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
1.8 MPa, Annealed	102	°C	ISO 75-2/A
1.8 MPa	102	°C	ISO 75-2 ⁶
Vicat Softening Temperature			
--	101	°C	ISO 306/B50
50°C/h, B (50N)	100	°C	ISO 306 ⁷
Electrical	Nominal Value	Unit	Test Method
Volume resistivity	> 1.0E+13	ohms · m	IEC 60093 ⁸
Flammability	Nominal Value	Unit	Test Method
Burning Rate ⁹ (2.00 mm)	45	mm/min	ISO 3795
Flame Rating ¹⁰			UL 94
1.50 mm	HB		
3.00 mm	HB		
Burning Behav. at 1.6mm nom. thickn. (1.50 mm, UL)	HB		ISO 1210 ¹¹
Carbon Emission ¹²	12.0	µg/g	VDA 277
NOTE			
1.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		
2.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.		

3.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
4.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
5.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
6.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
7.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
8.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
9.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.
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11.	Tested in accordance with ISO 10350. 23°C/50%r.h. unless otherwise noted.
12.	This rating not intended to reflect hazards presented by this or any other material under actual fire conditions.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

