

MAGNUM™ 8534

ABS Resin

Overview

MAGNUM™ 8534 is an ABS resins with good balance of glossiness, processability and impact performance. It is specially designed for applications that required European food contact and GB food contact compliance. It can be used for both injection molding and extrusion applications.

Complies with
 U.S. FDA 21 CFR 181.32(a)(3)(i)
 EU 10/2011
 Consult the regulation for complete detail

Applications:

- Small food contact appliances
- Toys
- Consumer goods

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm ³	1.05 g/cm ³	ISO 1183/B
Melt Mass-Flow Rate (MFR) (220°C/10.0 kg)	14 g/10 min	14 g/10 min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength			
Yield ¹	6670 psi	46.0 MPa	ASTM D638
Yield	5950 psi	41.0 MPa	ISO 527-2/50
Break ¹	5080 psi	35.0 MPa	ASTM D638
Break	4350 psi	30.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ¹	10 %	10 %	ASTM D638
Break	20 %	20 %	ISO 527-2/50
Flexural Modulus ²	334000 psi	2300 MPa	ASTM D790
Flexural Strength ²	10300 psi	71.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	9.0 ft-lb/in ²	19 kJ/m ²	ISO 179/1eA
Notched Izod Impact (73°F (23°C))	4.1 ft-lb/in	220 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
264 psi (1.8 MPa), Annealed	208 °F	98.0 °C	
Vicat Softening Temperature	212 °F	100 °C	ISO 306/B50
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating ³ (0.06 in (1.5 mm))	HB	HB	UL 94
Injection	Nominal Value (English)	Nominal Value (SI)	
Drying Temperature	176 to 194 °F	80 to 90 °C	
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr	
Processing (Melt) Temp	410 to 464 °F	210 to 240 °C	

Notes

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

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

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

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