

# MAGNUM™ 562

## Overview

MAGNUM™ 562 is an injection molding grade ABS resin with a good balance of flow, impact, and gloss. 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.

Govt. and Industry Standards:

MAGNUM™ 562 complies with U.S. FDA 21 CFR 181.32(a)(3)(i)

### Benefits

Balanced properties of impact, gloss, and flow for injection molding

Whiter base color for lighter self-coloring and pigment cost savings

Lot to lot consistency for optimal machine parameters

### Applications

- Appliances
- Compounding
- Consumer Applications
- Household Goods

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.05 g/cm <sup>3</sup>	1.05 g/cm <sup>3</sup>	ISO 1183
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	14 g/10 min	14 g/10 min	
230°C/3.8 kg	3.8 g/10 min	3.8 g/10 min	
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- <sup>1</sup>	348000 psi	2400 MPa	ASTM D638
--	305000 psi	2100 MPa	ISO 527-1/1
Tensile Strength			
Yield <sup>2</sup>	6240 psi	43.0 MPa	ASTM D638
Yield	5800 psi	40.0 MPa	ISO 527-2/50
Tensile Strain			
Yield	2.5 %	2.5 %	ISO 527-2/50
Break <sup>2</sup>	22 %	22 %	ASTM D638
Flexural Modulus			
-- <sup>3</sup>	363000 psi	2500 MPa	ASTM D790
-- <sup>4</sup>	290000 psi	2000 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	5.2 ft·lb/in <sup>2</sup>	11 kJ/m <sup>2</sup>	
73°F (23°C)	14 ft·lb/in <sup>2</sup>	30 kJ/m <sup>2</sup>	
Notched Izod Impact			ASTM D256
-22°F (-30°C)	2.4 ft·lb/in	130 J/m	
73°F (23°C)	6.6 ft·lb/in	350 J/m	

<b>Thermal</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>	<b>Test Method</b>
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	194 °F	90.0 °C	
264 psi (1.8 MPa), Unannealed	167 °F	75.0 °C	
Vicat Softening Temperature	207 °F	97.0 °C	ISO 306/B50

**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.

<b>Injection</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>
Drying Temperature	176 to 194 °F	80 to 90 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr