

# MAGNUM™ 3525 ABS Resin

## Overview

### Overview:

MAGNUM™ 3525 is a medium heat ABS. Its inherent low gloss combined with a high flow makes it specifically suitable for unpainted interior automotive applications.

### Benefits:

- 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
- High scratch and mar resistance for an improved aesthetic durability of the parts
- Easier recyclability of unpainted part

### Applications:

- Matt/unpainted interior automotive applications
- Mid-consoles
- Pillars
- Door Trims
- Glove boxes

### Automotive Specifications

- FORD WSS-M4D827-A3
- FORD WSS-M4D827-C1
- RNPO AS31
- STELLANTIS ABS-0013
- STELLANTIS ABS-0020

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
Apparent (Bulk) 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)	11 g/10 min	11 g/10 min	ISO 1133
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
VOC Content	35.0 µg/g	35.0 µg/g	VDA 277
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	290000 psi	2000 MPa	ISO 527-1/1
Tensile Stress (Yield)	5800 psi	40.0 MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	3.1 %	3.1 %	
Break	20 %	20 %	
Flexural Modulus <sup>1</sup>	297000 psi	2050 MPa	ISO 178
Flexural Stress <sup>1</sup>	8700 psi	60.0 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength 73°F (23°C), Injection Molded	8.6 ft-lb/in <sup>2</sup>	18 kJ/m <sup>2</sup>	ISO 179/1eA
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	174 °F	79.0 °C	ISO 75-2/A
Vicat Softening Temperature	212 °F	100 °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