

# PULSE™ A35-105

## PC/ABS Engineering Resin

### Overview

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PULSE™ A35-105 PC/ABS resin delivering optimized performance for automotive interior component applications.

#### Benefits

- High-impact strength even at low temperature
- High Heat resistance for demanding automotive interior components
- Consistent natural white color produces high quality part appearance when used with color concentrates (self coloring) or Trinseo Color Masterbatch Technology
- Low odor & VOC to meet all global Automotive OEM specifications

#### Applications

- Mid (floor)consoles
- Instrument Panel components
- Door panel trim
- Pillars
- Storage / load floors / glove box

#### Automotive Specifications

- BMW GS 93016
- GM QK 002412 Color: Natural
- JLR STJLR.51.353
- JLR STJLR.51.5262
- VAG VW-TL 52013 A
- VOLVO STD 1212,86
- DAIMLER DBL 5404.28
- GM QK 002432
- JLR STJLR.51.5229
- PSA Peugeot-Citroën ABS/PC-0001
- VOLKSWAGEN TL 522 31-A

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.12 g/cm <sup>3</sup>	1.12 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) (260°C/5.0 kg)	17 g/10 min	17 g/10 min	ISO 1133
Spiral Flow <sup>1</sup>	16.5 in	42.0 cm	
Molding Shrinkage	4.0E-3 to 7.0E-3 in/in	0.40 to 0.70 %	ISO 294-4
VOC Content	12.0 µg/g	12.0 µg/g	VDA 277
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	305000 psi	2100 MPa	ISO 527-2/1
Tensile Stress (Yield)	6960 psi	48.0 MPa	ISO 527-2/50
Tensile Strain (Break)	100 %	100 %	ISO 527-2/50
Flexural Modulus	312000 psi	2150 MPa	ISO 178
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F (-30°C)	21 ft·lb/in <sup>2</sup>	45 kJ/m <sup>2</sup>	
73°F (23°C)	24 ft·lb/in <sup>2</sup>	50 kJ/m <sup>2</sup>	
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature			ISO 75-2/A
264 psi (1.8 MPa), Unannealed	221 °F	105 °C	
Vicat Softening Temperature	252 °F	122 °C	ISO 306/B50
CLTE - Flow (-22 to 176°F (-30 to 80°C))	4.2E-5 to 4.4E-5 in/in/°F	7.5E-5 to 8.0E-5 cm/cm/°C	ISO 11359-2

<b>Injection</b>	<b>Nominal Value (English)</b>	<b>Nominal Value (SI)</b>
Drying Temperature	212 °F	100 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	491 to 536 °F	255 to 280 °C
Mold Temperature	140 to 176 °F	60 to 80 °C

#### **Notes**

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

<sup>1</sup> Melt Temperature: 500°F (260°C), Injection Pressure: 2.61E+4 psi (1.80E+3 bar)

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