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PULSE™ A35-105

Trinseo - *Polycarbonate + ABS*

Units SI

Action **Legend (Open)**

General Information

Product Description

Overview
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

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• Europe	• Latin America
Features	• Good Processability • Good Toughness	• High Impact Resistance • Low Temperature Impact Resistance	
Uses	• Automotive Applications • Automotive Instrument Panel	• Automotive Interior Parts • Electrical/Electronic Applications	
Automotive Specifications	• BMW GS 93016 • DAIMLER DBL 5404.28 • GM QK 002412 Color: Natural • GM QK 002432	• JLR STJLR.51.353 • JLR STJLR.51.5229 • JLR STJLR.51.5262 • PSA Peugeot-Citroën ABS/PC-0001	• VOLKSWAGEN TL 522 31-A • VOLVO STD 1212,86
Forms	• Pellets		
Processing Method	• Extrusion	• Injection Molding	

ASTM & ISO Properties [1]

Physical	Nominal Value	Unit	Test Method
Density	1.12	g/cm³	ISO 1183/B
Apparent (Bulk) Density	0.65	g/cm³	ISO 60
Melt Mass-Flow Rate (MFR) (260°C/5.0 kg)	17	g/10 min	ISO 1133
Spiral Flow [2]	48.0	cm	
Molding Shrinkage	0.40 to 0.70	%	ISO 294-4
VOC Content	9.00	µg/g	VDA 277
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	2200	MPa	ISO 527-2
Tensile Stress (Yield)	52.0	MPa	ISO 527-2/5
Tensile Strain (Break)	> 80	%	ISO 527-2/5
Flexural Modulus	2100	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	45	kJ/m²	
23°C	50	kJ/m²	
Thermal	**Nominal Value**	**Unit**	**Test Method**

Heat Deflection Temperature (1.8 MPa, Unannealed)	105 °C	ISO 75-2/A
Vicat Softening Temperature	122 °C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	7.2E-5 cm/cm/°C	ISO 11359-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	105	°C
Drying Time	4.0	hr
Processing (Melt) Temp	260 to 290	°C
Mold Temperature	70 to 90	°C

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] Melt Temperature: 260°C, Injection Pressure: 1.80E+3 bar