



Lustran® PG298

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Wednesday, December 8, 2021

General Information

Product Description

Lustran® PG298 resin is a grade of ABS (acrylonitrile butadiene styrene) for use in automotive and general-purpose applications. It provides a unique combination of flow and rigidity, with increased scratch resistance.

FEATURES

- SAE J1685: ABS0111
- Plating grade
- Improved thermocycle performance
- Outstanding plate adhesion
- Increased scratch resistance

APPLICATIONS

- Grills
- Wheel covers
- Mirror housings
- Appliance, lawn and garden

General

Material Status	• Commercial: Active		
Regional Availability	• Latin America	• North America	
Features	• General Purpose	• Good Adhesion	• Good Scratch Resistance
Uses	• Appliances • Automotive Applications	• General Purpose • Lawn and Garden Equipment	
Agency Ratings	• SAE J1685		
Automotive Specifications	• CHRYSLER MS-DB-197 CPN2220 Color: Natural • DAIMLER TRUCK 48-25358-003 • DELPHI DX300010 • FORD WSK-M4D806-A	• FORD WSK-M4D836-A • FORD WSS-M4D827-A3 • GM GMP.ABS.007 • GM GMW15572P-ABS-T1 Color: Q258	• GM GMW15572P-ABS-T5 • HONDA HES C251-06 A-3-M • SAE J1685 ABS0141
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.06	1.06	ASTM D792
Melt Mass-Flow Rate (MFR)			ISO 1133
220°C/10.0 kg	19 g/10 min	19 g/10 min	
230°C/3.8 kg	5.0 g/10 min	5.0 g/10 min	
Molding Shrinkage	0.40 to 0.70 %	0.40 to 0.70 %	ISO 294-4
Water Absorption			ISO 62
Saturation, 73°F (23°C)	1.0 %	1.0 %	
Equilibrium, 73°F (23°C), 50% RH	0.22 %	0.22 %	
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Stress (Yield, 73°F (23°C))	50.0 psi	0.345 MPa	ISO 527-2
Tensile Strain (Yield, 73°F (23°C))	2.8 %	2.8 %	ISO 527-2
Flexural Modulus (73°F (23°C))	392000 psi	2700 MPa	ISO 178

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Films	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus - MD	2800 psi	19.3 MPa	ISO 527-3
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179
-22°F (-30°C)	4.8 ft·lb/in ²	10 kJ/m ²	
73°F (23°C)	10 ft·lb/in ²	22 kJ/m ²	
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load ²			
66 psi (0.45 MPa), Annealed	216 °F	102 °C	ISO 75-2/B
264 psi (1.8 MPa), Annealed	210 °F	99.0 °C	ISO 75-2/A
Vicat Softening Temperature	208 °F	98.0 °C	ISO 306/B50
CLTE - Flow	4.4E-5 to 6.1E-5 in/in/°F	8.0E-5 to 1.1E-4 cm/cm/°C	ISO 11359-2
Thermal Conductivity	1.2 Btu·in/hr/ft ² /°F	0.17 W/m/K	ISO 8302

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	4.0 hr	4.0 hr
Rear Temperature	473 to 491 °F	245 to 255 °C
Middle Temperature	482 to 500 °F	250 to 260 °C
Front Temperature	491 to 509 °F	255 to 265 °C
Processing (Melt) Temp	500 to 536 °F	260 to 280 °C
Mold Temperature	122 to 140 °F	50 to 60 °C

Notes

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

² 4 h/80 °C