



Lustran® PG298

INEOS Styrolution - Acrylonitrile Butadiene Styrene

Tuesday, January 28, 2020

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 Scratch Resistance	
Uses	• Appliances	• General Purpose	
	• Automotive Applications	• Lawn and Garden Equipment	
Agency Ratings	• SAE J1685		
Automotive Specifications	• CHRYSLER MS-DB-197 CPN2220 Color: Natural	• FORD WSK-M4D836-A	• GM GMW15572P-ABS-T5
	• DAIMLER TRUCK 48-25358-003	• FORD WSS-M4D827-A3	• HONDA HES C251-06 A-3-M
	• DELPHI DX300010	• GM GMP.ABS.007	• SAE J1685 ABS0141
	• FORD WSK-M4D806-A	• GM GMW15572P-ABS-T1 Color: Q258	
Forms	• Pellets		
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)			ASTM D1238
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 - Flow	4.0E-3 to 6.0E-3 in/in	0.40 to 0.60 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	402000 psi	2770 MPa	ASTM D638
Tensile Strength (Yield, 73°F (23°C))	5800 psi	40.0 MPa	ASTM D638
Flexural Modulus (73°F (23°C))	410000 psi	2830 MPa	ASTM D790

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Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Flexural Strength (5.0% Strain)	11400 psi	78.6 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	3.2 ft·lb/in	170 J/m	ASTM D256
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (R-Scale)	110	110	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	196 °F	91.1 °C	
264 psi (1.8 MPa), Unannealed	183 °F	83.9 °C	
Vicat Softening Temperature	230 °F	110 °C	ASTM D1525 ²

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	175 °F	79 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Mold Temperature	110 to 150 °F	43 to 66 °C
Screw L/D Ratio	20.0:1.0	20.0:1.0
Screw Compression Ratio	2.5:1.0	2.5:1.0

Notes

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

² Rate B (120°C/h), Loading 1 (10 N)