



Luran® S 778T

INEOS Styrolution - Acrylonitrile Styrene Acrylate

Sunday, November 3, 2019

General Information

Product Description

Luran® S 778T is an injection molding grade with enhanced heat resistance and best chemical resistance among the ASA grades.

FEATURES

- High softening temperature
- High chemical resistance
- Enhanced stiffness
- New SPF 30 UV stabilization available

APPLICATIONS

- Radiator grills
- Mirror housings
- Household devices

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Features	• Chemical Resistant	• Good Stiffness	
Uses	• Household Goods	• Housings	
Automotive Specifications	• BMW GS 93016 • CHRYSLER MS-DB-19 CPN3409 Color: 25991 Black • CHRYSLER MS-DB-19 CPN3409 Color: 28214 Black • CHRYSLER MS-DB-19 CPN3409 Color: Q443 25991 Black • CHRYSLER MS-DB-19 CPN3409 Color: RXF • CHRYSLER MS-DB-19 CPN4011 Color: RXF • CHRYSLER MS-DB-19 CPN4876 • DAIMLER DBL 5416 • FORD WSB-M4D833-A Color: Black • FORD WSB-M4D833-A Color: FA Black • FORD WSB-M4D833-A Color: JA6A	• FORD WSB-M4D833-A Color: XSC2506 Graphite Gray • FORD WSB-M4D833-A Color: YGYA Black • FORD WSS-M4D833-A Color: CND • GM GMP.ASA.002 Color: 598F • GM GMP.ASA.002 Color: 848BK • GM GMP.ASA.002 Color: 8555BK • GM GMP.ASA.005 Color: 848BK • GM GMW15583P-ASA-T2 Color: 598F • GM GMW15583P-ASA-T2 Color: 848BK • GM GMW15583P-ASA-T2 Color: 8555BK • GM GMW15583P-ASA-T3 Color: 598F	• GM GMW15583P-ASA-T3 Color: 848BK • GM GMW15583P-ASA-T3 Color: 8555BK • HYUNDAI MS225-22 T1 • HYUNDAI MS225-22 T2 • NISSAN NES AAS-IB2-2 • PSA Peugeot-Citroën SPA X62 3445 • TOYOTA TSM 5523G Color: 11BK02 Black • TOYOTA TSM 5523G Color: 11BK03 Black • VOLKSWAGEN TL 52311 Color: 9B9
Forms	• Pellets		
Processing Method	• Injection Molding		

ASTM & ISO Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.07	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	5.00	cm ³ /10min	ISO 1133
Molding Shrinkage ²	0.40 to 0.70	%	ISO 294-4

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Physical	Nominal Value	Unit	Test Method
Water Absorption (Saturation, 73°F)	1.7	%	ISO 62
Water Absorption (Equilibrium, 73°F, 50% RH)	0.35	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	363000	psi	ISO 527-2
Tensile Stress (Yield, 73°F)	7830	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	3.4	%	ISO 527-2
Nominal Tensile Strain at Break (73°F)	8.0	%	ISO 527-2
Tensile Creep Modulus (1000 hr)	181000	psi	ISO 899-1
Flexural Stress (73°F)	11600	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.9	ft-lb/in ²	
73°F	7.1	ft-lb/in ²	
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness	12300	psi	ISO 2039-1
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ³ (66 psi, Annealed)	223	°F	ISO 75-2/B
Heat Deflection Temperature ³ (264 psi, Annealed)	217	°F	ISO 75-2/A
Vicat Softening Temperature			
--	235	°F	ISO 306/A50
--	219	°F	ISO 306/B50
CLTE - Flow	4.4E-5 to 6.1E-5	in/in/°F	ISO 11359-2
Thermal Conductivity	1.2	Btu-in/hr/ft ² /°F	DIN 52612
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+13	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms-cm	IEC 60093
Relative Permittivity			IEC 60250
100 Hz	3.90		
1 MHz	3.50		
Dissipation Factor			IEC 60250
100 Hz	9.0E-3		
1 MHz	0.033		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	464 to 536	°F
Mold Temperature	104 to 176	°F

Notes

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

² Free, longitudinal

³ 4h/80°C