

Leona™ 1300S

General Information				
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Material Status	• Commercial: Active			
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America		
Features	• Good Flow	• Good Stiffness	• GoodToughness	
Uses	• Automotive Applications • Connectors	• Consumer Applications • Fittings		
ASTM & ISO Properties 1				
Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.14	--	g/cm³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	1.3 to 2.0	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	2.5	%	
Equilibrium, 23°C, 50% RH	--	2.5	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3000	1200	MPa	ISO 527-2
TensileStress				ISO 527-2
Yield, 23°C	82.0	52.0	MPa	ASTM D638
--	79.0	57.0	MPa	
TensileStrain				ISO 527-2
Yield, 23°C Break	4.0	24	%	ASTM D638
Break, 23°C	50	250	%	ISO 527-2
Flexural	--	>100	%	
Modulus				
--	2800	1200	MPa	ASTM D790
23°C	2700	1100	MPa	ISO 178
Flexural Strength				
--	11	54.0	MPa	ASTM D790
23°C	8	42.0	MPa	ISO 178
Taber Abrasion Resistance	11			ASTM D1044
1000 Cycles	3--	7.00	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	15	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	39	150	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				
M-Scale	80	55		ASTM D785 ISO 2039-2
R-Scale	120	108		

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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	230	--	°C	
0.45 MPa, Unannealed	190	--	°C	ASTM D648
1.8 MPa, Unannealed	70.0	--	°C	ISO 75-2/B
				ASTM D648
CLTE - Flow	8.0E-5	--	cm/cm/°C	ISO 75-2/A
Specific Heat	1670	--	J/kg/°C	ASTM D696
Thermal Conductivity	0.20	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257 IEC 60093
Volume Resistivity				
--	1.0E+14	--	ohms-cm	ASTM D257 IEC 60093
23°C	1.0E+14	--	ohms-cm	ASTM D149 IEC 60243-1
Dielectric Strength	20	--	kV/mm	IEC 60112
Comparative Tracking Index				
3.00 mm	600	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	V-2	--		UL94
Glow Wire Flammability Index				IEC 60695-2-12
3.0 mm	960	--	°C	
Oxygen Index	26	--	%	ASTM D2863

Notes

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