Leona™ 1402SH

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 1402SH is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 1402SH include automotive, electrical/electronic applications, engineering/industrial parts and wire & cable.
Characteristics include:
Flame Rated
Good Stiffness
Good Toughness
Heat Stabilizer

General Information	
UL YellowCard	E48285-240894
Additive	Heat Stabilizer
Features	Good Flow Good Stiffness Good Toughness Heat Stabilized
Uses	Automotive Applications Connectors Fittings Wire & Cable Applications

Physical	Dry	Conditioned	Unit	Test Method
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
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	80	55		
R-Scale	120	108		
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (23°C)	3000	1100	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	82.0	48.0	MPa	ISO 527-2
--	79.0	55.0	MPa	ASTM D638
Tensile Strain				

Yield, 23°C	4.5	25	%	ISO 527-2
Break	50	270	%	ASTM D638
Break, 23°C	--	> 50	%	ISO 527-2
Flexural Modulus				
--	2800	1000	MPa	ASTM D790
23°C	2600	900	MPa	ISO 178
Flexural Strength				
--	118	50.0	MPa	ASTM D790
23°C	111	38.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	16	kJ/m^2	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	39	200	J/m	ASTM D256
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				
0.45 MPa, Unannealed	230	--	°C	ASTM D648
0.45 MPa, Unannealed	162	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	70.0	--	°C	ASTM D648
1.8 MPa, Unannealed	62.0	--	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	--	cm/cm/°C	ASTM D696
Specific Heat	1670	--	J/kg/°C	
Thermal Conductivity	0.20	--	W/m/K	
Electrical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Surface Resistivity	1.0E+13	--	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength	20	--	kV/mm	IEC 60243-1
Comparative Tracking Index (3.00 mm)	525	--	V	IEC 60112
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.750 mm)	V-2	--		UL 94
Oxygen Index	26	--	%	ASTM D2863

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China