

Leona™ CR301

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ CR301 is a Polyamide 66 (Nylon 66) product filled with mineral. It is available in Africa & Middle East, Asia Pacific, Europe, or North America.

Applications of Leona™ CR301 include electrical/electronic applications and industrial applications.

Characteristics include:

Flame Rated

Conductive

Good Dimensional Stability

General Information				
Filler / Reinforcement	Mineral			
Features	Electrically Conductive			
	Good Dimensional Stability			
Uses	Electrical Parts			
	Electrical/Electronic Applications			
	Industrial Applications			
	Switches			
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.48	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.50 to 1.3	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	1.5	%	
Equilibrium, 23°C, 50% RH	--	1.5	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	85	--		ASTM D785, ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7000	4100	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	85.0	59.0	MPa	ISO 527-2
--	88.0	64.0	MPa	ASTM D638
Tensile Elongation				
Break	3.0	3.5	%	ASTM D638
Break, 23°C	2.0	11	%	ISO 527-2
Flexural Modulus				
--	5900	2900	MPa	ASTM D790
23°C	7400	4100	MPa	ISO 178

Flexural Strength				
--	147	93.0	MPa	ASTM D790
23°C	140	92.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)				
--		8.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	3.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	51	90	kJ/m ²	ISO 179
Notched Izod Impact	34	39	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	250	--	°C	ASTM D648
0.45 MPa, Unannealed	249	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	191	--	°C	ASTM D648
1.8 MPa, Unannealed	188	--	°C	ISO 75-2/A
CLTE - Flow	4.0E-5	--	cm/cm/°C	ASTM D696
Flammability	Dry	Conditioned		Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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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

