

Leona™ CR302

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ CR302 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™ CR302 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	1.52	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	0.50 to 1.0	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	1.4	%	
Equilibrium, 23°C, 50% RH	--	1.4	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	90	--		ASTM D785, ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	10000	7600	MPa	ISO 527-2
Tensile Stress				
Break, 23°C	140	92.0	MPa	ISO 527-2
--	128	98.0	MPa	ASTM D638
Tensile Elongation				
Break	3.0	3.5	%	ASTM D638
Break, 23°C	2.0	2.5	%	ISO 527-2
Flexural Modulus				
--	8800	5800	MPa	ASTM D790
23°C	9800	7100	MPa	ISO 178

Flexural Strength				
--	191	157	MPa	ASTM D790
23°C	197	148	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	38	46	kJ/m ²	ISO 179
Notched Izod Impact	36	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	260	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	245	--	°C	ASTM D648
1.8 MPa, Unannealed	247	--	°C	ISO 75-2/A
Flammability	Dry	Conditioned		Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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