

Leona™ CR301

Asahi Kasei Corporation - Polyamide 66

General Information

General

Filler / Reinforcement	• Mineral
Features	• Good Dimensional Stability • Good Electrical Properties
Uses	• Electrical Parts • Industrial Applications • Electrical/Electronic Applications • Switches
Part Marking Code (ISO11469) (ISO 11469)	• >PA66-MD40<

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.48	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	0.50 to 1.3	--	%	Internal Method
Water Absorption Equilibrium, 23°C, 50% RH	--	1.5	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	7000	4100	MPa	ISO 527-1
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				ASTM D1044
1000 Cycles	--	8.00	mg	



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Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	3.0	kJ/m²	ISO 179
Charpy Unnotched Impact Strength	51	90	kJ/m²	ISO 179
Notched Izod Impact	34	39	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (M-Scale)	85	--		ASTM D785 ISO 2039-2
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
CLTE - Flow	4.0E-5	--	cm/cm/°C	ASTM D696
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	HB	--		UL 94

Notes

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

