

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site
URL : <https://www.asahi-kasei-plastics.com/en/contact/>

AsahiKASEI



LEONA™ CR301

Asahi Kasei Corporation - Polyamide 66

Tuesday, March 19, 2024

General Information

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • North America
Filler / Reinforcement	• Mineral, 40% Filler by Weight
Features AKEP website	• Warpage, Low
Uses	• Electrical Parts • Electrical/Electronic Applications • Industrial Applications • Switches
Part Marking Code (ISO11469) (ISO 11469)	• >PA66-MD40<

Other Documentation

Literature	• Molding Conditions • SDS • Technical Handbook
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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				ISO 62
Equilibrium, 23°C, 50% RH	--	1.5	%	
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

Disclaimer:

- Data shown are typical values obtained by proper testing methods and should not be used for specification purpose. Please use these data for selecting the most appropriate grade suitable for specific usage.

These data may be changed because of improvement in properties.

- Be sure to read the relevant SDS before handling and use, and always follow the Important Precautions.

- Do not use plastics in any of the following orally- or medically-related applications.

- Orally-related applications: any part, device or component which may come into direct oral contact or into direct contact with drinking foods or beverages.

For drinking water application, please consult Asahi Kasei Corporation.

- Medically-related applications: any part, device or component which may be used intracorporeally or which may in dialysis or other processes come into direct or indirect contact with body tissue, body fluids or transfusion fluids.

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Mechanical	Dry	Conditioned	Unit	Test Method
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
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

Processing Information

Injection	Dry	Unit
Drying Temperature - Vacuum Dryer	80 to 90	°C
Drying Time - Vacuum Dryer	2.0 to 3.0	hr
Processing (Melt) Temp	275 to 295	°C
Mold Temperature	75 to 85	°C

Notes

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

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