

【Inquiries】

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

AsahiKASEI



LEONA™ TR161

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
Additive	• Heat Stabilizer	
Features AKEP website	• Heat Stabilized	• Impact Resistance, Medium
Uses	• Automotive Applications • Connectors	• Fasteners • Wire & Cable Applications
Part Marking Code (ISO11469) (ISO 11469)	• >PA66-I<	

Other Documentation

Literature	• Moldflow Data • Molding Conditions • SDS • Technical Handbook
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ASTM & ISO Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.11	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	1.7 to 2.2	--	%	Internal Method
Water Absorption Equilibrium, 23°C, 50% RH	--	1.9	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2400	1100	MPa	ISO 527-1
Tensile Stress				
Yield, 23°C	72.0	46.0	MPa	ISO 527-2
Break, 23°C	64.0	--	MPa	ISO 527-2
--	70.0	47.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.5	22	%	ISO 527-2
Break	20	220	%	ASTM D638
Break, 23°C	15	> 100	%	ISO 527-2
Flexural Modulus				
--	2500	1400	MPa	ASTM D790
23°C	2200	1000	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
Flexural Strength				
--	98.0	49.0	MPa	ASTM D790
23°C	88.0	38.0	MPa	ISO 178
Taber Abrasion Resistance				ASTM D1044
1000 Cycles	--	7.00	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15 kJ/m²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	170	1200	J/m	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	114	98		ASTM D785 ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	225	--	°C	ASTM D648
0.45 MPa, Unannealed	209	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	--	°C	ASTM D648
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	--	cm/cm/°C	ASTM D696
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.75 mm)	HB	--		UL 94

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	270 to 290	°C
Mold Temperature	75 to 85	°C

Notes

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

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