

【Inquiries】

AsahiKASEI Engineering Plastics Information Comprehensive Site

URL : <https://www.asahi-kasei-plastics.com/en/contact/>

AsahiKASEI



LEONA™ 1542

Asahi Kasei Corporation - Polyamide 66

Wednesday, March 20, 2024

General Information

General

Material Status	• Commercial: Active ¹		
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America	
Additive	• PTFE Lubricant		
Features AKEP website	• Friction, Low	• Heat Stabilized	• Viscosity, Medium
Uses	• Automotive Applications • Bearings	• Gears • Siding Applications	
Automotive Specifications	• CHRYSLER MS-DB-41 CPN 5375 Color: Black		
Part Marking Code (ISO11469) (ISO 11469)	• >PA66+PTFE<		

Other Documentation

Literature	• Moldflow Data • Molding Conditions • SDS • Technical Handbook
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ASTM & ISO Properties ²

Physical	Dry	Conditioned	Unit	Test Method
Density	1.17	--	g/cm ³	ISO 1183
Molding Shrinkage				Internal Method
Across Flow	2.2	--	%	
Flow	1.8	--	%	
Water Absorption				ISO 62
Equilibrium, 23°C, 50% RH	--	2.4	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3300	1300	MPa	ISO 527-1
Tensile Stress (Yield, 23°C)	78.0	52.0	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	4.0	27	%	ISO 527-2
Flexural Modulus (23°C)	2900	1200	MPa	ISO 178
Flexural Stress (23°C)	114	46.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	6.0	18	kJ/m ²	ISO 179

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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Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	201	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	64.0	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-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	270 to 290	°C
Mold Temperature	75 to 85	°C

Notes

¹ All data is provisional.

² Typical properties: these are not to be construed as specifications.

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