

General Information

General

Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Additive	• Flame Retardant	
Features	• Flame Retardant	• Halogen Free
Uses	• Connectors • Electrical Parts	• Electrical/Electronic Applications • Switches

ASTM & ISO Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.16	--	g/cm ³	ASTM D792 ISO 1183
Molding Shrinkage - Flow	1.3 to 2.0	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	2.4	%	
Equilibrium, 23°C, 50% RH	--	2.4	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3500	1100	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	75.0	44.0	MPa	ISO 527-2
Break, 23°C	69.0	--	MPa	ISO 527-2
--	79.0	47.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	3.5	24	%	ISO 527-2
Break	25	80	%	ASTM D638
Break, 23°C	10	> 100	%	ISO 527-2
Flexural Modulus				
--	2900	1100	MPa	ASTM D790
23°C	2900	1000	MPa	ISO 178
Flexural Strength				
--	118	44.0	MPa	ASTM D790
23°C	117	37.2	MPa	ISO 178
Taber Abrasion Resistance				ASTM D1044
1000 Cycles	--	8.00	mg	
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	4.0	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	29	120	J/m	ASTM D256

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 application : 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 Chemicals Corporation.
- Medically-related applications : any part, 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.

Leona™ FR200

Asahi Kasei Chemicals Corporation - Polyamide 66

Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785
M-Scale	80	--		ISO 2039-2
R-Scale	118	90		
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	209	--	°C	ASTM D648
0.45 MPa, Unannealed	203	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	--	°C	ASTM D648
1.8 MPa, Unannealed	62.0	--	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	--	cm/cm/°C	ASTM D696
Specific Heat	1670	--	J/kg/°C	
Thermal Conductivity	0.20	--	W/m/K	
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+13	--	ohms	ASTM D257 IEC 60093
Volume Resistivity				
--	1.0E+14	--	ohms·cm	ASTM D257
23°C	1.0E+14	--	ohms·cm	IEC 60093
Dielectric Strength	19	--	kV/mm	ASTM D149 IEC 60243-1
Comparative Tracking Index				IEC 60112
3.00 mm	600	--	V	
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
3.00 mm	960	--	°C	
Oxygen Index	32	--	%	ASTM D2863

Notes

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

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 application : 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 Chemicals Corporation.
- Medically-related applications : any part, 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.