

Leona™ MR001

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ MR001 is a Polyamide 66 (Nylon 66) product filled with mineral. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ MR001 include electrical/electronic applications, engineering/industrial parts and industrial applications. Characteristics include:
Flame Rated
Good Dimensional Stability
Heat Stabilizer
High Stiffness

General Information	
UL YellowCard	E48285-240923
Filler / Reinforcement	Mineral
Additive	Heat Stabilizer
Features	Good Dimensional Stability
	Heat Stabilized
	High Stiffness
Uses	Electrical Parts
	Electrical/Electronic Applications
	Industrial Applications
	Structural Parts

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.52	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.0 to 1.1	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	1.5	%	
Equilibrium, 23°C, 50% RH	--	1.5	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	85	60		
R-Scale	120	108		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	5900	3400	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	--	59.0	MPa	ISO 527-2
Break, 23°C	93.0	58.0	MPa	ISO 527-2
--	98.0	67.0	MPa	ASTM D638

Tensile Strain				
Yield, 23°C	--	14	%	ISO 527-2
Break	6.0	7.0	%	ASTM D638
Break, 23°C	5.5	19	%	ISO 527-2
Flexural Modulus				
--	5600	3300	MPa	ASTM D790
23°C	5800	3100	MPa	ISO 178
Flexural Strength				
--	157	98.0	MPa	ASTM D790
23°C	150	84.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	22.0	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	62	130	kJ/m ²	ISO 179
Notched Izod Impact	34	39	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	240	--	°C	ASTM D648
0.45 MPa, Unannealed	229	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	160	--	°C	ASTM D648
1.8 MPa, Unannealed	118	--	°C	ISO 75-2/A
CLTE - Flow	6.0E-5	--	cm/cm/°C	ASTM D696
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	22	--	kV/mm	ASTM D149, IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94

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