

Leona™ 94N05

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ 94N05 is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ 94N05 include automotive, fabrics/fibers and industrial applications.

Characteristics include:

- Flame Rated
- Good UV Resistance
- High Stiffness

General Information	
Features	Good UV Resistance High Stiffness
Uses	Automotive Applications Automotive Interior Parts Fabrics Industrial Applications

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.17	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.0 to 2.0	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	2.2	%	
Equilibrium, 23°C, 50% RH	--	2.2	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness				ASTM D785, ISO 2039-2
M-Scale	85	--		
R-Scale	120	--		
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	3500	1600	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	88.0	58.0	MPa	ISO 527-2
--	80.0	57.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.0	20	%	ISO 527-2
Break	14	> 100	%	ASTM D638
Break, 23°C	--	> 100	%	ISO 527-2
Flexural Modulus				
--	3300	1800	MPa	ASTM D790

23°C	3200	1500	MPa	ISO 178
Flexural Strength	127	59.0	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	5.0	9.0	kJ/m ²	ISO 179
Notched Izod Impact	40	50	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	253	--	°C	ASTM D648
0.45 MPa, Unannealed	255	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	80.0	--	°C	ASTM D648
1.8 MPa, Unannealed	75.0	--	°C	ISO 75-2/A
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	HB	--		UL 94
Oxygen Index	28	--	%	ASTM D2863

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