LEONA™ CR103

Asahi Kasei Corporation - *Polyamide 66*

General Information

General		
Material Status	• Commercial: Active	
Availability	• Africa & Middle East • Asia Pacific	• Europe • North America
Filler / Reinforcement	• Glass Fiber\Mineral, 40% Filler by Weight	
Additive	• Heat Stabilizer	• Lubricant
Features	• Heat Stabilized	• Low Warpage
Uses	• Automotive Applications • Electrical/Electronic Applications	• Industrial Applications • Structural Parts
Part Marking Code (ISO 11469)	• >PA66-(GF+MD)40<	

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.45	--		ASTM D792
Density	1.45	--	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.50 to 1.1	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.5	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.17E+6	754000	psi	ISO 527-1
Tensile Strength	20200	15400	psi	ASTM D638
Tensile Stress (Break, 73°F)	19000	14500	psi	ISO 527-2
Tensile Elongation (Break)	6.0	9.0	%	ASTM D638
Tensile Strain (Break, 73°F)	4.0	7.0	%	ISO 527-2
Flexural Modulus	957000	609000	psi	ASTM D790
Flexural Modulus (73°F)	972000	609000	psi	ISO 178
Flexural Strength	30900	21900	psi	ASTM D790
Flexural Stress (73°F)	29400	20700	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	2.2	2.6	ft·lb/in²	ISO 179
Notched Izod Impact	0.96	1.1	ft·lb/in	ASTM D256
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness				ASTM D785
M-Scale	94	74		
R-Scale	120	94		
Rockwell Hardness				ISO 2039-2
M-Scale	94	74		
R-Scale	120	94		
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	464	--	°F	ISO 75-2/A
CLTE - Flow	2.2E-5	--	in/in/°F	ASTM D696
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating (0.030 in)	HB	--		UL 94

Processing Information

Injection	Dry	Unit
Drying Temperature - Vacuum Dryer	176 to 194	°F
Drying Time - Vacuum Dryer	2.0 to 3.0	hr

Processing (Melt) Temp	527 to 563 °F
Mold Temperature	167 to 185 °F

Notes

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