LEONA™ CR302

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	
Features	• Low Warpage	
Uses	• Electrical Parts • Electrical/Electronic Applications	• Industrial Applications • Switches
Part Marking Code (ISO 11469)	• >PA66-(GF+MD)40<	

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.52	--		ASTM D792
Density	1.52	--	g/cm³	ISO 1183
Molding Shrinkage - Flow	0.50 to 1.0	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.4	%	ISO 62
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus (73°F)	1.45E+6	1.10E+6	psi	ISO 527-1
Tensile Strength	18600	14200	psi	ASTM D638
Tensile Stress (Break, 73°F)	20300	13300	psi	ISO 527-2
Tensile Elongation (Break)	3.0	3.5	%	ASTM D638
Tensile Strain (Break, 73°F)	2.0	2.5	%	ISO 527-2
Flexural Modulus	1.28E+6	841000	psi	ASTM D790
Flexural Modulus (73°F)	1.42E+6	1.03E+6	psi	ISO 178
Flexural Strength	27700	22800	psi	ASTM D790
Flexural Stress (73°F)	28600	21500	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength	1.9	2.4	ft·lb/in²	ISO 179
Charpy Unnotched Impact Strength	18	22	ft·lb/in²	ISO 179
Notched Izod Impact	0.67	0.73	ft·lb/in	ASTM D256
Hardness	**Dry**	**Conditioned**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	90	--		ASTM D785
Rockwell Hardness (M-Scale)	90	--		ISO 2039-2
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	482	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	500	--	°F	ISO 75-2/B
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