

LEONA™ TR161

Asahi Kasei Corporation - Polyamide 66

General Information

General	
Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • Asia Pacific • North America
Additive	• Heat Stabilizer
Features	• Heat Stabilized • Medium Impact Resistance
Uses	• Automotive Applications • Fasteners • Connectors • Wire & Cable Applications
Part Marking Code (ISO 11469)	• >PA66-I<

Properties¹

Physical	Dry	Conditioned	Unit	Test Method
Density / Specific Gravity	1.11	--		ASTM D792
Density	1.11	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.7 to 2.2	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.9	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	348000	160000	psi	ISO 527-1
Tensile Strength	10200	6820	psi	ASTM D638
Tensile Stress (Yield, 73°F)	10400	6670	psi	ISO 527-2
Tensile Stress (Break, 73°F)	9280	--	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	4.5	22	%	ISO 527-2
Tensile Elongation (Break)	20	220	%	ASTM D638
Tensile Strain (Break, 73°F)	15	> 100	%	ISO 527-2
Flexural Modulus	363000	203000	psi	ASTM D790
Flexural Modulus (73°F)	319000	145000	psi	ISO 178
Flexural Strength	14200	7110	psi	ASTM D790
Flexural Stress (73°F)	12800	5510	psi	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.1 ft·lb/in ²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	3.1	22	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	114	98		ASTM D785
Rockwell Hardness (R-Scale)	114	98		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	437	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	408	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	171	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	151	--	°F	ISO 75-2/A
CLTE - Flow	3.9E-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	518 to 554 °F
Mold Temperature	167 to 185 °F

Notes

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

