

LEONA™ TR382

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 • High 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	1.08	--		ASTM D792
Density	1.08	--	g/cm ³	ISO 1183
Molding Shrinkage - Flow	1.7 to 2.5	--	%	Internal Method
Water Absorption (Equilibrium, 73°F, 50% RH)	--	1.7	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (73°F)	276000	102000	psi	ISO 527-1
Tensile Strength	7830	5370	psi	ASTM D638
Tensile Stress (Yield, 73°F)	7690	5080	psi	ISO 527-2
Tensile Stress (Break, 73°F)	6530	--	psi	ISO 527-2
Tensile Strain (Yield, 73°F)	5.5	28	%	ISO 527-2
Tensile Elongation (Break)	70	220	%	ASTM D638
Tensile Strain (Break, 73°F)	60	> 100	%	ISO 527-2
Flexural Modulus	290000	145000	psi	ASTM D790
Flexural Modulus (73°F)	290000	102000	psi	ISO 178
Flexural Strength	11500	5660	psi	ASTM D790
Flexural Stress (73°F)	10600	4350	psi	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	6.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	38 ft·lb/in ²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	21	25	ft·lb/in	ASTM D256
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	107	89		ASTM D785
Rockwell Hardness (R-Scale)	107	89		ISO 2039-2
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	419	--	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	361	--	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	163	--	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	136	--	°F	ISO 75-2/A
CLTE - Flow	6.1E-5	--	in/in/°F	ASTM D696

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

