

Leona™ TR161

Polyamide 66

Asahi Kasei Chemicals Corporation

Message:

Leona™ TR161 is a Polyamide 66 (Nylon 66) product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Leona™ TR161 include automotive, electrical/electronic applications, engineering/industrial parts and wire & cable.

Characteristics include:

- Good Toughness
- Heat Stabilizer
- Impact Resistant

General Information	
Additive	Heat Stabilizer
Features	Good Toughness
	Heat Stabilized
	High Impact Resistance
Uses	Automotive Applications
	Connectors
	Fasteners
	Wire & Cable Applications

Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.11	--	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage - Flow	1.7 to 2.2	--	%	Internal Method
Water Absorption				
Saturation, 23°C	--	1.9	%	
Equilibrium, 23°C, 50% RH	--	1.9	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	114	98		ASTM D785, ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus (23°C)	2400	1100	MPa	ISO 527-2
Tensile Stress				
Yield, 23°C	72.0	46.0	MPa	ISO 527-2
Break, 23°C	64.0	--	MPa	ISO 527-2
--	70.0	47.0	MPa	ASTM D638
Tensile Strain				
Yield, 23°C	4.5	22	%	ISO 527-2
Break	20	220	%	ASTM D638
Break, 23°C	15	> 100	%	ISO 527-2

Flexural Modulus				
--	2500	1400	MPa	ASTM D790
23°C	2200	1000	MPa	ISO 178
Flexural Strength				
--	98.0	49.0	MPa	ASTM D790
23°C	88.0	38.0	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles)	--	7.00	mg	ASTM D1044
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15 kJ/m ²	No Break		ISO 179
Charpy Unnotched Impact Strength	No Break	No Break		ISO 179
Notched Izod Impact	170	1200	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	225	--	°C	ASTM D648
0.45 MPa, Unannealed	209	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	77.0	--	°C	ASTM D648
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	--	cm/cm/°C	ASTM D696

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