Tenac™ LS701

Acetal (POM) Homopolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™ LS701 is an Acetal (POM) Homopolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ LS701 include engineering/industrial parts and housings.
Characteristics include:
Flame Rated
High Flow
Homopolymer
Low Viscosity
Lubricated

General Information	
UL YellowCard	E48285-240847
Additive	Lubricant
Features	Good Wear Resistance High Flow Homopolymer Low Friction Low Viscosity Lubricated
Uses	Engineering Parts Gears Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.42	g/cm³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	34	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.8 to 2.2	%	Internal Method
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	94		
R-Scale	120		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3100	MPa	ISO 527-2
Tensile Stress			
Yield	65.0	MPa	ISO 527-2
--	64.0	MPa	ASTM D638
Tensile Elongation			

Break	25	%	ASTM D638
Break	20	%	ISO 527-2
Flexural Modulus			
--	3100	MPa	ASTM D790
--	2700	MPa	ISO 178
Flexural Strength	98.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	6.0	kJ/m^2	ISO 179
Notched Izod Impact	49	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	172	°C	ASTM D648
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	136	°C	ASTM D648
1.8 MPa, Unannealed	100	°C	ISO 75-2/A
CLTE - Flow	1.0E-4	cm/cm/°C	ASTM D696, ISO 11359-2
Flammability	**Nominal Value**		**Test Method**
Flame Rating (0.700 mm)	HB		UL 94

Recommended distributors for this material

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