Tenac™ GN705

Acetal (POM) Homopolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™ GN705 is an Acetal (POM) Homopolymer product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™ GN705 include engineering/industrial parts and housings.
Characteristics include:
Flame Rated
High Stiffness
High Strength
Homopolymer
Low Viscosity

General Information	
UL YellowCard	E48285-240815
Filler / Reinforcement	Glass Fiber
Features	High Stiffness High Strength Homopolymer Low Viscosity
Uses	Engineering Parts Gears Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.56	g/cm³	ASTM D792
--	1.59	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	10	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Flow	0.40 to 0.60	%	
Across Flow	1.0 to 1.3	%	
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness			ASTM D785
M-Scale	90		
R-Scale	120		
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	9000	MPa	ISO 527-2
Tensile Stress			
Break	110	MPa	ISO 527-2

--	106	MPa	ASTM D638
Tensile Elongation			
Break	6.0	%	ASTM D638
Break	2.0	%	ISO 527-2
Flexural Modulus			
--	8200	MPa	ASTM D790
--	8500	MPa	ISO 178
Flexural Strength	173	MPa	ASTM D790
Taber Abrasion Resistance	23.0	mg	ASTM D1044
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength	7.0	kJ/m^2	ISO 179
Notched Izod Impact	66	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed	174	°C	ASTM D648
0.45 MPa, Unannealed	175	°C	ISO 75-2/B
1.8 MPa, Unannealed	170	°C	ASTM D648
1.8 MPa, Unannealed	171	°C	ISO 75-2/A
CLTE			
Flow	4.0E-5	cm/cm/°C	ASTM D696
Flow	4.0E-5 to 9.0E-5	cm/cm/°C	ISO 11359-2
Transverse	9.0E-5	cm/cm/°C	ASTM D696
Flammability	**Nominal Value**		**Test Method**
Flame Rating (0.750 mm)	HB		UL 94

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

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