

Tenac™-C GN455

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C GN455 is an Acetal (POM) Copolymer product filled with glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C GN455 include engineering/industrial parts, automotive and housings.

Characteristics include:

- Flame Rated
- Copolymer
- High Stiffness
- High Strength
- Medium Viscosity

General Information	
UL YellowCard	E48285-240814
Filler / Reinforcement	Glass Fiber
Features	Copolymer
	High Stiffness
	High Strength
	Medium Viscosity
Uses	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	4.0	g/10 min	ISO 1133
Molding Shrinkage			Internal Method
Flow	0.40 to 0.60	%	
Across Flow	1.0 to 1.2	%	
Water Absorption (23°C, 24 hr, 50% RH)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	79		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8000	MPa	ISO 527-2
Tensile Stress			
Break	120	MPa	ISO 527-2
--	121	MPa	ASTM D638
Tensile Elongation			
Break	8.0	%	ASTM D638
Break	2.0	%	ISO 527-2

Flexural Modulus			
--	7900	MPa	ASTM D790
--	7500	MPa	ISO 178
Flexural Strength	188	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	7.0	kJ/m ²	ISO 179
Notched Izod Impact	62	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	166	°C	ASTM D648
0.45 MPa, Unannealed	165	°C	ISO 75-2/B
1.8 MPa, Unannealed	163	°C	ASTM D648, 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			UL 94
0.750 mm	HB		
1.50 mm	HB		

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