

Tenac™-C ZLD75

Acetal (POM) Copolymer

Asahi Kasei Chemicals Corporation

Message:

Tenac™-C ZLD75 is an Acetal (POM) Copolymer product. It is available in Africa & Middle East, Asia Pacific, Europe, or North America. Applications of Tenac™-C ZLD75 include engineering/industrial parts, automotive and housings.

Characteristics include:

- Flame Rated
- Copolymer
- High Flow
- High Stiffness
- Low Viscosity

General Information	
UL YellowCard	E48285-520260
Additive	Lubricant
Features	Copolymer
	Good Wear Resistance
	High Flow
	High Stiffness
	Low Friction
	Low Viscosity
	Low VOC
	Low Warpage
	Lubricated
Uses	Automotive Applications
	Engineering Parts
	Gears
	Housings

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792, ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage - Flow	1.4 to 1.6	%	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	70		
R-Scale	115		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3500	MPa	ISO 527-2

Tensile Stress			
Yield	53.0	MPa	ISO 527-2
--	51.0	MPa	ASTM D638
Tensile Elongation			
Break	8.0	%	ASTM D638
Break	10	%	ISO 527-2
Flexural Modulus			
--	3390	MPa	ASTM D790
--	3400	MPa	ISO 178
Flexural Strength	86.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	3.0	kJ/m ²	ISO 179
Notched Izod Impact	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed	159	°C	ASTM D648
0.45 MPa, Unannealed	160	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	°C	ASTM D648
1.8 MPa, Unannealed	110	°C	ISO 75-2/A
CLTE - Flow	8.0E-5	cm/cm/°C	ASTM D696, ISO 11359-2
Flammability	Nominal Value		Test Method
Flame Rating (0.750 mm)	HB		UL 94

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

