

TENAC™-C LD755

Asahi Kasei Corporation - Acetal (POM) Copolymer

General Information
General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Additive	• Lubricant
Features	• High Flow • Low Warpage • Wear Resistant • Low Friction • Lubricated
Uses	• Engineering Parts • Gears • Housings
Part Marking Code (ISO 11469)	• >POM-MD20<

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.52		ASTM D792
Density	1.52	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	25	g/10 min	ISO 1133
Molding Shrinkage - Flow	0.014 to 0.016	in/in	Internal Method
Water Absorption (24 hr, 73°F, 50% RH)	0.20	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	508000	psi	ISO 527-1
Tensile Strength	7400	psi	ASTM D638
Tensile Stress (Yield)	7690	psi	ISO 527-2
Tensile Elongation (Break)	8.0	%	ASTM D638
Nominal Tensile Strain at Break	10	%	ISO 527-2
Flexural Modulus	492000	psi	ASTM D790
Flexural Modulus	493000	psi	ISO 178
Flexural Strength	12500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	1.4	ft·lb/in ²	ISO 179
Notched Izod Impact	0.60	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			ASTM D785
M-Scale	70		
R-Scale	115		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	318	°F	ASTM D648
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	266	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ISO 75-2/A
CLTE - Flow	4.4E-5	in/in/°F	ASTM D696
CLTE - Flow	4.4E-5	in/in/°F	ISO 11359-2
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.028 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Hot Air Dryer	176 to 194	°F
Drying Time - Hot Air Dryer	3.0 to 4.0	hr



Processing (Melt) Temp	356 to 410 °F
Mold Temperature	> 140 °F

Notes

¹ Typical properties: these are not to be construed as specifications.

