

Tenac™-C 4510

Acetal (POM) Copolymer
Asahi Kasei Chemicals Corporation



Prospector

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Asia Pacific	• Europe
Features	• Fatigue Resistant • General Purpose • Good Abrasion Resistance • Good Creep Resistance	• Good Dimensional Stability • Good Stiffness • Good Toughness • Good Wear Resistance	• High Friction • High Strength
Uses	• Cams	• Gears	• Machine/Mechanical Parts
Forms	• Pellets		

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.41 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0 g/10 min	ASTM D1238
Molding Shrinkage - Flow	1.6 to 2.0 %	ASTM D955
Water Absorption (Saturation)	0.20 %	ASTM D570

Mechanical	Nominal Value Unit	Test Method
Tensile Strength ²	60.8 MPa	ASTM D638
Tensile Elongation ² (Break)	60 %	ASTM D638
Flexural Modulus	2600 MPa	ASTM D790
Flexural Strength	88.3 MPa	ASTM D790

Impact	Nominal Value Unit	Test Method
Notched Izod Impact	58.8 J/m	ASTM D256

Hardness	Nominal Value Unit	Test Method
Rockwell Hardness		ASTM D785
M-Scale	80	
R-Scale	115	

Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load		ASTM D648
0.45 MPa, Unannealed	158 °C	
1.8 MPa, Unannealed	110 °C	
Melting Temperature	167 °C	

Flammability	Nominal Value Unit	Test Method
Flame Rating - UL	HB	UL 94

Notes

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

² 5.0 mm/min