TENAC™-C CF452

POM-CF10 Asahi Kasei

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Melt volume-flow rate, MVR	**4.1**	cm³/10min	ISO 1133
Temperature	**190**	°C	-
Load	**2.16**	kg	-
Melt flow index, MFI	**5**	g/10min	ISO 1133

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**7500**	MPa	ISO 527
[C] Stress at break	**110**	MPa	ISO 527
[C] Strain at break	**2**	%	ISO 527
Flexural modulus, 23°C	**7000**	MPa	ISO 178
[C] Charpy notched impact strength, +23°C	**4**	kJ/m²	ISO 179/1eA
ASTM Data			
Tensile Strength	**101**	MPa	ASTM D 638
Elongation at Break	**5**	%	ASTM D 638
Flexural Modulus	**7000**	MPa	ASTM D 790
Flexural Strength	**155**	MPa	ASTM D 790
Rockwell Hardness	**M 90**	-	ASTM D 785
Izod Impact notched, 1/8 in	**33**	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
[C] Temp. of deflection under load, 1.80 MPa	**161**	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	**165**	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	**75**	E-6/K	ISO 11359-1/-2
[C] Burning Behav. at 1.5 mm nom. thickn.	**HB**	class	IEC 60695-11-10
[C] Burning Behav. at thickness h	**HB**	class	IEC 60695-11-10
Thickness tested	**0.8**	mm	-
Yellow Card available	**yes**	-	-
ASTM Data			
UL 94 Flame rating	**HB**	-	UL 94
Coefficient of Thermal Expansion, MD	**60**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**90**	E-6/K	ASTM D 696
DTUL @ 66 psi	**162**	°C	ASTM D 648
DTUL @ 264 psi	**140**	°C	ASTM D 648

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Density	**1430**	kg/m³	ISO 1183
Water Absorption, 24hr	**0.2**	%	ASTM D 570
Density	**1430**	kg/m³	ASTM D 792

[C]: CAMPUS

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**80 - 90**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**180 - 210**	°C	-
Mold temperature	**60**	°C	-

Characteristics

TENAC™-C CF452

POM-CF10 Asahi Kasei

Processing
Injection Molding, Other Extrusion

Delivery form
Pellets

Special Characteristics
Increased electrical conductivity, Anti-static

Features
Copolymer

Applications
Automotive

Regional Availability
North America, Europe, Asia Pacific, South and Central America, Near East/Africa