Tenac™-C Z4520

Acetal (POM) Copolymer Asahi Kasei Plastics North America Inc.



General		
Material Status	Commercial: Active	
Availability	North America	
Forms	Pellets	

Nominal Value Unit	Test Method
9.3 g/10 min	ISO 1133
	ISO 294-4
2.5 %	
2.2 %	
Nominal Value Unit	Test Method
2600 MPa	ISO 527-2
64.0 MPa	ISO 527-2
34 %	ISO 527-2
2500 MPa	ISO 178
85.0 MPa	ISO 178
Nominal Value Unit	Test Method
5.80 kJ/m²	ISO 179
	9.3 g/10 min 2.5 % 2.2 % Nominal Value Unit 2600 MPa 64.0 MPa 34 % 2500 MPa 85.0 MPa Nominal Value Unit

The values shown for Molding Shrinkage, ISO 294-4, were tested in accordance with Asahi test methods.

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	3.0 to 4.0 hr
Rear Temperature	180 to 190 °C
Middle Temperature	190 to 200 °C
Front Temperature	200 to 210 °C
Nozzle Temperature	200 to 210 °C
Mold Temperature	48.9 °C
Injection Pressure	75.8 to 138 MPa
Holding Pressure	75.8 to 138 MPa
Back Pressure	0.345 MPa
Screw Speed	20 to 100 rpm
Screw Compression Ratio	3.0:1.0 to 4.5:1.0

Injection Notes

Mold Temperature: > 120°F

Injection Speed: 1-5 Seconds
Drying Conditions: Usually not necessary

Cooling Time: Short Screw Type: General

Slightly longer cycle times may be required to mold wall thicknesses over 1/4 inch.

Slightly higher injection pressures and mold temperatures may be required to mold wall thicknesses below 0.100 inches.

Notes

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