

# DURACON® SF-20

## Polyplastics - Acetal (POM) Copolymer

### General Information

#### Product Description

High Impact, Flexible

#### General

Features	• Copolymer	• Good Flexibility	• High Impact Resistance
UL File Number	• E45034		
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >POM-I<		

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density	1.28	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.9	%	
Flow : 0.0787 in	2.3	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	189000	psi	ISO 527-1
Tensile Stress	4790	psi	ISO 527-2
Nominal Tensile Strain at Break	140	%	ISO 527-2
Flexural Modulus	174000	psi	ISO 178
Flexural Stress	5510	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic <sup>3</sup>	0.50		
vs. Steel - Dynamic <sup>4</sup>	0.50		
Wear Factor			JIS K7218
71 psi, 59 ft/min <sup>5</sup>	< 0.50	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
71 psi, 59 ft/min <sup>6</sup>	25	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>7</sup>	250	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
8.7 psi, 30 ft/min <sup>8</sup>	300	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	9.5	ft·lb/in <sup>2</sup>	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	40		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	144	°F	
CLTE - Flow (73 to 131°F)	7.8E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	7.8E-5	in/in/°F	Internal Method

## DURACON® SF-20

### Polyplastics - Acetal (POM) Copolymer

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	5.0E+14	ohms	IEC 60093
Volume Resistivity	5.0E+13	ohms·cm	IEC 60093
Electric Strength (0.118 in)	460	V/mil	IEC 60243-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	
Color Number	CF2001		

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60x60x20mmt, Cavity Pressure 60 MPa

<sup>3</sup> vs M90-44, 0.06 MPa, 15 cm/s

<sup>4</sup> 0.49 MPa, 30 cm/s

<sup>5</sup> vs C-Steel, Steel Side

<sup>6</sup> vs C-Steel, Material Side

<sup>7</sup> vs M90-44, M90-44 Side

<sup>8</sup> vs M90-44, Material Side