

DURACON® SF-10

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<		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	2.1	%	
Flow : 0.0787 in	2.4	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.60	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	276000	psi	ISO 527-1
Tensile Stress	6530	psi	ISO 527-2
Nominal Tensile Strain at Break	60	%	ISO 527-2
Flexural Modulus	261000	psi	ISO 178
Flexural Stress	8850	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic ³	0.40		
vs. Steel - Dynamic ⁴	0.50		
Wear Factor			JIS K7218
71 psi, 59 ft/min ⁵	< 0.50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
71 psi, 59 ft/min ⁶	25	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ⁷	50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ⁸	150	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	60		ISO 2039-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	180	°F	
CLTE - Flow (73 to 131°F)	7.2E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	7.2E-5	in/in/°F	Internal Method

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Flammability	Nominal Value	Unit	Test Method
Flame Rating		HB	UL 94
Additional Information	Nominal Value	Unit	
Color Number		CF2001	

Notes

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

² 60x60x20mmt, Cavity Pressure 60 MPa

³ vs M90-44, 0.06 MPa, 15 cm/s

⁴ 0.49 MPa, 30 cm/s

⁵ vs C-Steel, Steel Side

⁶ vs C-Steel, Material Side

⁷ vs M90-44, Material Side

⁸ vs M90-44, M90-44 Side