DURACON® SX-35

Polyplastics - Acetal (POM) Copolymer

General Information		
Product Description		
Flexible		
Lower Noise		
General		
Features	• Copolymer	• Good Flexibility
UL File Number	• E45034	
Forms	• Pellets	
Processing Method	• Injection Molding	
Part Marking Code (ISO 11469)	• >POM-I<	

Properties [1]			
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.24	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	1.3	%	
Flow : 0.0787 in	1.3	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	131000	psi	ISO 527-1
Tensile Stress	3770	psi	ISO 527-2
Nominal Tensile Strain at Break	25	%	ISO 527-2
Flexural Modulus	116000	psi	ISO 178
Flexural Stress	4640	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic [3]	0.45		
vs. Steel - Dynamic [4]	0.52		
Wear Factor			JIS K7218
71 psi, 59 ft/min [5]	< 0.50	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [6]	150	10^-10 in³·min/ft·lb·hr	
71 psi, 59 ft/min [7]	300	10^-10 in³·min/ft·lb·hr	
8.7 psi, 30 ft/min [8]	350	10^-10 in³·min/ft·lb·hr	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in²	ISO 179/1eA
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 psi, Unannealed	156	°F	
CLTE - Flow (73 to 131°F)	6.1E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	9.4E-5	in/in/°F	Internal Method

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Electrical	Nominal Value	Unit	Test Method
Electric Strength (0.118 in)	640	V/mil	IEC 60243-1
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
Additional Information	**Nominal Value**	**Unit**	
Color Number	CF2002		

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 M90-44, M90-44 Side

[7] vs C-Steel, Material Side

[8] vs M90-44, Material Side