

DURACON® H140-54C

Polyplastics - Acetal (POM) Copolymer

General Information

Product Description

Special

High Strength, Fuel Resistant

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Features	• Copolymer	• Fuel Resistant	• High Strength
Automotive Specifications	• FORD WSS-M98P14-A3 Color: CF2001	• GM GMW18373P-POM Color: CF2001 ¹	• GM GMW3103 Color: CF2001
Forms	• Pellets		
Processing Method	• Injection Molding		
Part Marking Code (ISO 11469)	• >POM<		

 Properties²

Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	14	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	12	cm ³ /10min	ISO 1133
Molding Shrinkage ³			ISO 294-4
Across Flow : 0.0787 in	2.3	%	
Flow : 0.0787 in	2.2	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.50	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	421000	psi	ISO 527-1
Tensile Stress	10300	psi	ISO 527-2
Nominal Tensile Strain at Break	30	%	ISO 527-2
Flexural Modulus	406000	psi	ISO 178
Flexural Stress	13800	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic ⁴	0.37		
vs. Steel - Dynamic ⁵	0.48		
vs. Steel - Dynamic ⁶	0.38		
Wear Factor			JIS K7218
71 psi, 59 ft/min ⁷	< 0.50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
140 psi, 59 ft/min ⁷	< 0.50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
140 psi, 59 ft/min ⁸	41	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
71 psi, 59 ft/min ⁸	61	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ⁹	2800	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ¹⁰	4000	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	94		ISO 2039-2



Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	212	°F	ISO 75-2/A
CLTE - Flow (73 to 131°F)	5.6E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	5.6E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	7.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+15	ohms·cm	IEC 60093
Electric Strength (0.118 in)	530	V/mil	IEC 60243-1
Additional Information	Nominal Value	Unit	Test Method
Color Number	CF2001/CD3068		

Notes

- ¹ GMW22+Fuel resistance
- ² Typical properties: these are not to be construed as specifications.
- ³ 60x60x2mmt, Cavity Pressure 60 MPa
- ⁴ vs M90-44, pressure 0.06MPa, 15cm/s
- ⁵ vs C-Steel, pressure 0.49MPa, 30cm/s
- ⁶ vs C-Steel, pressure 0.98MPa, 30cm/s
- ⁷ vs C-Steel, steel side
- ⁸ vs C-Steel, material side
- ⁹ vs M90-44, M90-44 side
- ¹⁰ vs M90-44, material side

