

DURACON® TF-20

Polyplastics - Acetal (POM) Copolymer

General Information

Product Description

High Impact, Flexible

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (190°C/2.16 kg)	7.0	cm ³ /10min	ISO 1133
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	1.9	%	
Flow : 0.0787 in	2.0	%	
Water Absorption (24 hr, 73°F, 0.0394 in)	0.70	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	247000	psi	ISO 527-1
Tensile Stress	6530	psi	ISO 527-2
Nominal Tensile Strain at Break	70	%	ISO 527-2
Flexural Modulus	225000	psi	ISO 178
Flexural Stress	8270	psi	ISO 178
Coefficient of Friction			JIS K7218
Dynamic ³	0.65		
vs. Steel - Dynamic ⁴	0.30		
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	50	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ⁷	99	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
8.7 psi, 30 ft/min ⁸	99	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	8.1	ft·lb/in ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method
CLTE - Flow (73 to 131°F)	6.7E-5	in/in/°F	Internal Method
CLTE - Transverse (73 to 131°F)	7.2E-5	in/in/°F	Internal Method
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	8.0E+13	ohms	IEC 60093
Volume Resistivity	2.0E+13	ohms·cm	IEC 60093
Additional Information	Nominal Value	Unit	
Color Number	CF2001/CF2002		