

Technical Data Sheet

Schulaform 9F DB RED964100

Acetal (POM) Copolymer

Product Description

High viscosity POM

Processing Method Injection Molding

Attribute High Viscosity

Resin ID POM

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Volume Flow Rate, (190 °C/2.16 kg)	3.0	cm ³ /10 min	ISO 1133
Density, (Method A)	1.41	g/cm ³	ISO 1183
Mechanical			
Tensile Stress at Yield, (Type 1A, 50 mm/min)	61.0	MPa	ISO 527-2
Tensile Strain at Yield, (Type 1A, 50 mm/min)	11	%	ISO 527-2
Tensile Modulus, (1 mm/min, Type 1A)	2500	MPa	ISO 527-1
Impact			
Charpy Impact Strength - Notched			
(23 °C, Type 1, Edgewise, Notch A)	13	kJ/m ²	ISO 179
(-30 °C, Type 1, Edgewise, Notch A)	10	kJ/m ²	ISO 179
Charpy Impact Strength - Unnotched			
(23 °C, Type 1, Edgewise)	No Break		ISO 179
(-30 °C, Type 1, Edgewise)	No Break		ISO 179
Hardness			
Ball Indentation Hardness, (H 358/30)	140	MPa	ISO 2039-1
Thermal			
Vicat Softening Temperature			
(B (50N), 50 °C/h)	147	°C	ISO 306
(A (10N), 50 °C/h)	162	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa), (Flatwise)	150	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa), (Flatwise)	89.0	°C	ISO 75-2/A
RTI Elec, (1.5 mm)	50.0	°C	UL 746B
RTI Imp, (1.5 mm)	50.0	°C	UL 746B
RTI Str, (1.5 mm)	50.0	°C	UL 746B
Electrical			
Volume Resistivity	>1.0E+13	ohm*m	IEC 62631-3-1

Comparative Tracking Index (CTI)	600	V	IEC 60112
Surface Resistivity	>1.0E+15	ohm	IEC 60093
Flammable			
Burning Rate			
(2.00 mm)	44	mm/min	FMVSS 302
(2.00 mm)	44	mm/min	ISO 3795
Glow Wire Flammability Index			
(1.5 mm)	650	°C	IEC 60695-2-12
(3.0 mm)	625	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			
(1.5 mm)	675	°C	IEC 60695-2-13
(3.0 mm)	650	°C	IEC 60695-2-13
UL Information			
Flammability Classification			
(1.5 mm)	HB		IEC 60695-11-10, -20
(3.0 mm)	HB		IEC 60695-11-10, -20
UL File Number	E86615		
Injection Parameters			
	Nominal Value	Units	
Drying Time	2.0 to 4.0	hr	
Drying Temperature	100	°C	
Suggested Max Moisture	0.040 to 0.10	%	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	60 to 120	°C	