CompaFid® PPS L GF 40 black (6001)

PPS-GF40 DimeLika Plast GmbH

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
Molding shrinkage, normal	**0.7**	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	**14700**	MPa	ISO 527
Stress at break	**195**	MPa	ISO 527
Strain at break	**1.9**	%	ISO 527
Flexural modulus, 23°C	**14500**	MPa	ISO 178
Charpy impact strength, +23°C	**53**	kJ/m²	ISO 179/1eU
Charpy notched impact strength, +23°C	**10**	kJ/m²	ISO 179/1eA
Rockwell hardness	**M100**	-	ISO 2039-2
ASTM Data			
Taber Abrasion Resistance	**50**	mg/1000 cycles	ASTM D 1044

Thermal properties	Value	Unit	Test Standard
ISO Data			
Melting temperature, 10°C/min	**280**	°C	ISO 11357-1/-3
Glass transition temperature, 10°C/min	**90**	°C	ISO 11357-1/-2
Temp. of deflection under load, 1.80 MPa	**270**	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	**V-0**	class	IEC 60695-11-10
Thickness tested	**1.6**	mm	-
Burning behav. at thickness h	**V-0**	class	IEC 60695-11-10
Thickness tested	**0.4**	mm	-
Oxygen index	**47**	%	ISO 4589-1/-2

Electrical properties	Value	Unit	Test Standard
ISO Data			
Relative permittivity, 1MHz	**4.1**	-	IEC 62631-2-1
Volume resistivity	**>1E13**	Ohm*m	IEC 62631-3-1
Electric strength	**24**	kV/mm	IEC 60243-1
Comparative tracking index	**125**	-	IEC 60112

Other properties	Value	Unit	Test Standard
Humidity absorption	**0.02**	%	Sim. to ISO 62
Density	**1650**	kg/m³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	**130 - 140**	°C	-
Pre-drying - Time	**3 - 4**	h	-
Melt temperature	**320 - 340**	°C	-
Mold temperature	**120 - 150**	°C	-
Zone 1	**300 - 340**	°C	-
Nozzle temperature	**320 - 340**	°C	-
Screw speed	**50 - 120**	rpm	-
Injection pressure	**50 - 100**	MPa	-
Holding pressure	**30 - 70**	MPa	-
Maximum residence time	**10**	min	-

Characteristics

Delivery form

Black

Chemical Resistance

General Chemical Resistance

Special Characteristics
Flame retardant, Heat stabilized or stable to heat

Regional Availability
Europe