

SCHULAKETON GF 30 4DE

Polyketone, Aliphatic

A. Schulman Europe

Message:

30% glass fiber reinforced aliphatic Polyketon, flame-retardant, halogen free

General Information			
Processing Method	Extrusion		
	Injection molding		
Resin ID (ISO 1043)	PK		
Physical	Nominal Value	Unit	Test Method
Density	1.47	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (240°C/5.0 kg)	7.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8500	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	130	MPa	ISO 527-2/5
Tensile Strain (Break)	4.5	%	ISO 527-2/5
Flexural Modulus ¹	8800	MPa	ISO 178
Flexural Stress ² (3.5% Strain)	190	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.9	kJ/m ²	ISO 179/1eA
23°C	13	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			
-30°C	65	kJ/m ²	ISO 179
23°C	68	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	206	°C	ISO 75-2/Af
Vicat Softening Temperature	208	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.8 mm	V-0		UL 94, IEC 60695-11-10, -20
1.6 mm	V-0		UL 94, IEC 60695-11-10, -20

3.2 mm	V-0		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.75 mm	960	°C	IEC 60695-2-12
1.5 mm	960	°C	IEC 60695-2-12
3.0 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.75 mm	850	°C	IEC 60695-2-13
1.5 mm	850	°C	IEC 60695-2-13
3.0 mm	850	°C	IEC 60695-2-13

Additional Information

- 1.)
Not for use in food contact applications2.)
Not for use in medical or pharmaceutical applications

NOTE

1. 2.0 mm/min
2. 2.0 mm/min

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