

SCHULAKETON HV 4DE

Polyketone, Aliphatic

A. Schulman Europe

Message:

High viscosity aliphatic Polyketon, flame-retardant, halogen free

General Information			
Features	Halogen-free		
	Flame retardancy		
Processing Method	Extrusion		
Resin ID (ISO 1043)	PK		
Physical	Nominal Value	Unit	Test Method
Density	1.25	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2050	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	50.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	35	%	ISO 527-2/1A/50
Flexural Modulus ¹	2350	MPa	ISO 178
Flexural Stress ² (3.5% Strain)	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	4.0	kJ/m ²	ISO 179/1eA
23°C	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			
-30°C	80	kJ/m ²	ISO 179
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	178	°C	ISO 75-2/Bf
1.8 MPa, not annealed	112	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	214	°C	ISO 306/A50
--	184	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index (CTI)	600	V	UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20

0.40 mm	V-0		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	825	°C	IEC 60695-2-13
1.5 mm	825	°C	IEC 60695-2-13
3.0 mm	850	°C	IEC 60695-2-13
Oxygen Index	33	%	ISO 4589-2

Additional Information

1.) Not for use in medical or pharmaceutical applications

NOTE

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

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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