

SCHULAKETON NV

Polyketone, Aliphatic

A. Schulman Europe

Message:

Low viscosity aliphatic Polyketon

General Information			
Processing Method	Injection molding		
Resin ID (ISO 1043)	PK		
Physical	Nominal Value	Unit	Test Method
Density	1.24	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (240°C/2.16 kg)	60.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	65.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	18	%	ISO 527-2/1A/50
Flexural Modulus ¹	1500	MPa	ISO 178
Flexural Stress ²			ISO 178
3.5% strain	40.0	MPa	ISO 178
9.0% strain	55.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-40°C	5.0	kJ/m ²	ISO 179/1eA
23°C	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			
-40°C	No Break		ISO 179
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	100	°C	ISO 75-2/Af
Vicat Softening Temperature	191	°C	ISO 306/B50
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm)	< 100	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
1.60 mm	HB		UL 94, IEC 60695-11-10, -20
3.20 mm	HB		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	700	°C	IEC 60695-2-12

3.00 mm	700	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	725	°C	IEC 60695-2-13
3.00 mm	725	°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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