

SCHULADUR® A MV 14 SHI FR 1

Polybutylene Terephthalate

A. Schulman Europe

Message:

High impact flame retardant halogenated PBT compound; without PBDE; UL (f1) black + white

General Information			
UL YellowCard	E86615-100059357	E86615-100860733	
Features	Impact modification		
	Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.37	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	5.00	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2200	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	44.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	4.0	%	ISO 527-2/1A/50
Nominal Tensile Strain at Break	15	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	9.0	kJ/m²	ISO 179/1eA
23°C	20	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	123	°C	ISO 75-2/Bf
1.8 MPa, not annealed	61.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	213	°C	ISO 306/A50
--	134	°C	ISO 306/B50
RTI Elec			UL 746
0.750 mm	140	°C	UL 746
1.50 mm	140	°C	UL 746
RTI Imp			UL 746

0.750 mm	110	°C	UL 746
1.50 mm	110	°C	UL 746
RTI			UL 746
0.750 mm	130	°C	UL 746
1.50 mm	130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
High Amp Arc Ignition (HAI)			UL 746
0.750 mm	PLC 0		UL 746
1.50 mm	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
0.750 mm	PLC 4		UL 746
1.50 mm	PLC 3		UL 746
Flammability	Nominal Value	Unit	Test Method
Burning Rate (2.00 mm, Self-Extinguishing)	0.0	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
0.750 mm	V-0		UL 94, IEC 60695-11-10, -20
	V-0		
1.50 mm	5VB		UL 94, IEC 60695-11-10, -20
	V-0		
3.00 mm	5VA		UL 94, IEC 60695-11-10, -20
2.00 mm	5VB		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	650	°C	IEC 60695-2-13
1.50 mm	650	°C	IEC 60695-2-13
3.00 mm	650	°C	IEC 60695-2-13
Oxygen Index	26	%	ISO 4589-2
Additional Information			

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

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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

