

SCHULADUR® A MV 14 SHI FR 1(f1) black

96.8106

Polybutylene Terephthalate

A. Schulman Europe

Message:

PBT flame retardant, high impact, (f1) suitable for outdoor use

General Information			
Features	Impact modification		
	Good UV resistance		
	Halogenated		
	Flame retardancy		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PBT FR (17)		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (250°C/2.16 kg)	5.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	42.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.5	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	6.0	kJ/m ²	ISO 179/1eA
23°C	12	kJ/m ²	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	111	°C	ISO 75-2/Bf
1.8 MPa, not annealed	55.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	211	°C	ISO 306/A50
--	126	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	200	V	IEC 60112

Flammability	Nominal Value	Unit	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-0		IEC 60695-11-10, -20
1.60 mm	V-0		IEC 60695-11-10, -20
3.20 mm	V-0		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	700	°C	IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13
Additional Information			

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

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