

Stirofor® HI-V0 NATURALE

High Impact Polystyrene

SO.F.TER. SPA

Message:

Hi-impact polystyrene, flame retardant grade UL94 V-2/V-0

General Information			
UL YellowCard	E187982-227111		
Features	Flame Retardant		
	High Impact Resistance		
Agency Ratings	EC 1907/2006 (REACH)		
UL File Number	E187982		
Appearance	Natural Color		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	15	g/10 min	ASTM D1238
Molding Shrinkage	0.50	%	Internal Method
Water Absorption (23°C, 24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.0	MPa	ASTM D638
Tensile Elongation (Break)	20	%	ASTM D638
Flexural Modulus	2300	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	77.0	°C	ASTM D648
Vicat Softening Temperature	85.0	°C	ASTM D1525 ¹
Ball Pressure Test (75°C)	Pass		IEC 335
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	250	V	IEC 60112
Needle Flame Test	Pass		IEC 60695-11-5
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	V-2		
3.20 mm	V-0		
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	23	%	ASTM D2863

Injection	Nominal Value	Unit
Drying Temperature	60.0	°C
Drying Time	2.0	hr
Rear Temperature	160	°C
Middle Temperature	170	°C
Front Temperature	180	°C
Mold Temperature	30.0 to 50.0	°C

NOTE

1. Rate A (50°C/h), Loading 2 (50 N)

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