Stirolan DF AE V0 1.6

High Impact Polystyrene

Soredi S.p.a.

Message:

Polystyrene impact modified, flame retardant UL 94 V0 at 1.6 mm rating. Polybrominphenyle-free and polybromindiphenylether-free.

General Information			
Features	Bromine Free Flame Retardant Impact Modified		
Forms	Pellets		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.18	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (200°C/5.0 kg)	11	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.10	%	ISO 62
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	80		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength [1]			ASTM D638
Yield	20.0	MPa	
Break	22.0	MPa	
Tensile Elongation [2] (Break)	40	%	ASTM D638
Flexural Modulus [3]	2000	MPa	ASTM D790
Flexural Strength [4] (Break)	34.0	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	30	J/m	
23°C, 3.20 mm	50	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
Vicat Softening Temperature	88.0	°C	ASTM D1525 [5]
CLTE - Flow (23 to 55°C)	9.0E-5	cm/cm/°C	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Relative Permittivity (1 MHz)	2.30		IEC 60250
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.60 mm	V-0		

3.20 mm	V-0		
Glow Wire Ignition Temperature (2.00 mm)	960	°C	IEC 60695-2-13

NOTE	
1.	5.0 mm/min
2.	5.0 mm/min
3.	1.3 mm/min
4.	1.3 mm/min
5.	Rate B (120°C/h), Loading 2 (50 N)

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