

Polifor® 5003/V2-EP NATURALE

Polypropylene Copolymer

SO.F.TER. SPA

Message:

Polypropylene copolymer, flame retardant grade UL94 V-2, low halogen content, without antimony oxide

General Information			
UL YellowCard	E187982-227092		
Features	Antimony Free		
	Copolymer		
	Flame Retardant		
	Low Halogen Content		
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	0.920	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	12	g/10 min	ASTM D1238
Molding Shrinkage	1.8	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	27.0	MPa	ASTM D638
Tensile Elongation (Break)	100	%	ASTM D638
Flexural Modulus	1200	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	40	J/m	
23°C	70	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	45.0	°C	ASTM D648
Vicat Softening Temperature	70.0	°C	ASTM D1525 ¹
Ball Pressure Test (125°C)	Pass		IEC 335
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	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-2		
Glow Wire Ignition Temperature	960	°C	IEC 60695-2-13
Oxygen Index	27	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	60.0	°C	
Drying Time	2.0	hr	
Rear Temperature	180	°C	
Middle Temperature	210	°C	
Front Temperature	220	°C	
Mold Temperature	20.0 to 40.0	°C	
NOTE			

1. Rate A (50°C/h), Loading 2 (50 N)

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