

Polifor® 5003/V2 NATURALE

Polypropylene Homopolymer

SO.F.TER. SPA

Message:

Polypropylene homopolymer, flame retardant grade UL94 V-2

General Information			
Features	Flame Retardant		
	Homopolymer		
Agency Ratings	EC 1907/2006 (REACH)		
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)	30.0	MPa	ASTM D638
Tensile Elongation (Break)	40	%	ASTM D638
Flexural Modulus	1400	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
0°C	26	J/m	
23°C	35	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	55.0	°C	ASTM D648
Vicat Softening Temperature	93.0	°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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