

GPP™ 1005M

Thermoplastic Polyolefin Elastomer

S&E; Specialty Polymers, LLC

Message:

GPP™1005M is a polyolefin thermoplastic elastomer (TPO (POE)) product. It is available in North America. GPP™The application areas of 1005M include electrical/electronic applications, handles and lighting equipment. The main characteristics are: flame retardant/rated flame.

General Information			
Uses	Electrical/Electronic Applications		
	Toothbrush handle		
	Lighting device		
Appearance	Available colors		
	Natural color		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.918	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR)	9.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield	30.6	MPa	ASTM D638
Fracture	26.9	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1030	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Drop Impact Resistance	11.7	J/cm	ASTM D4226
Thermal	Nominal Value	Unit	Test Method
RTI Elec	115	°C	UL 746
RTI Imp	115	°C	UL 746
RTI	115	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Dielectric Constant (23°C, 1 kHz)	2.10		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.794 mm)	V-2		UL 94
Oxygen Index	28	%	ASTM D2863
Additional Information			

Suggested Stock Temperature: 410 to 450°FThe value listed as Dart Impact Resistance ASTM D4226, was tested in accordance with ASTM D3029.

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT