

RAYPRENE® NB223-S4005

Thermoplastic Elastomer

R&P; (Pte.) Ltd.

Message:

RAYPRENE® NB223-S4005 is a modified Thermoplastic Elastomer that possesses good mechanical properties and dimensional stability, particularly on tensile elasticity. It has outstanding flexibility and high adhesion capabilities with many engineering polymers such as PC, PC/ABS, PMMA and PBT. This grade provides a soft-touch feel and is suitable for injection overmolding for many application components such as household appliances, sports gear, electrical and telecommunication devices.

General Information			
Features	Good Adhesion		
	Good Dimensional Stability		
	Good Flexibility		
	High Elasticity		
	Soft		
Uses	Appliances		
	Electrical/Electronic Applications		
	Sporting Goods		
	Telecommunications		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.950	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	2.0	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	60		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	5.90	MPa	ASTM D412
Tensile Elongation ² (Break)	610	%	ASTM D412
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.020	%	
Processing (Melt) Temp	190 to 220	°C	
Mold Temperature	20.0 to 50.0	°C	
NOTE			
1.	500 mm/min		
2.	500 mm/min		

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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

