

RAYPRENE® NB221-S4050

Thermoplastic Elastomer

R&P; (Pte.) Ltd.

Message:

RAYPRENE® NB221-S4050 is a modified thermoplastic elastomer that possesses good mechanical properties, dimensional stability and tensile elasticity. It has outstanding flexibility and high adhesion capabilities with many polymers such as PP and PE. This grade provides a soft touch feel and is suitable for injection overmolding for many application components such as household appliances, sports gears, electrical and telecommunication devices. It is translucent and can be used for food contact applications.

General Information			
Features	Food Contact Acceptable		
	Good Adhesion		
	Good Dimensional Stability		
	Good Flexibility		
	High Elasticity		
	Soft		
Uses	Appliances		
	Electrical/Electronic Applications		
	Non-specific Food Applications		
	Sporting Goods		
	Telecommunications		
Appearance	Translucent		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.870	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	8.0 to 12	g/10 min	ASTM D1238
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 15 sec)	35		ASTM D2240
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Break)	4.20	MPa	ASTM D412
Tensile Elongation ² (Break)	920	%	ASTM D412
Injection	Nominal Value	Unit	
Drying Temperature	60.0 to 70.0	°C	
Drying Time	2.0	hr	
Processing (Melt) Temp	190 to 210	°C	
Mold Temperature	20.0 to 50.0	°C	
NOTE			
1.	500 mm/min		

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