

# RAYPRENE® NB221-S4053

Thermoplastic Elastomer

R&P; (Pte.) Ltd.

## Message:

RAYPRENE® NB221-S4053 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                          | 0.880                              | g/cm <sup>3</sup> | 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)      | 70                                 |                   | ASTM D2240  |
| Elastomers                                | Nominal Value                      | Unit              | Test Method |
| Tensile Strength <sup>1</sup> (Break)     | 8.70                               | MPa               | ASTM D412   |
| Tensile Elongation <sup>2</sup> (Break)   | 820                                | %                 | 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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