

# POLIMAXX 1111NXTA4

Polypropylene Homopolymer  
IRPC Public Company Limited

Message:

1111NXTA4 is a PP Homopolymer with 20% talcum filler for injection molding process, medium melt flow, high flexural modulus and high heat resistance. It is suitable for auto parts and electrical appliances.

| General Information                                      |                                    |                   |             |
|----------------------------------------------------------|------------------------------------|-------------------|-------------|
| Filler / Reinforcement                                   | Talc,20% Filler by Weight          |                   |             |
| Features                                                 | High Heat Resistance               |                   |             |
|                                                          | High Stiffness                     |                   |             |
|                                                          | Homopolymer                        |                   |             |
|                                                          | Medium Flow                        |                   |             |
| Uses                                                     | Appliance Components               |                   |             |
|                                                          | Electrical/Electronic Applications |                   |             |
| RoHS Compliance                                          | RoHS Compliant                     |                   |             |
| Processing Method                                        | Injection Molding                  |                   |             |
| Physical                                                 | Nominal Value                      | Unit              | Test Method |
| Specific Gravity                                         | 1.06                               | g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)                | 11                                 | g/10 min          | ASTM D1238  |
| Hardness                                                 | Nominal Value                      | Unit              | Test Method |
| Rockwell Hardness (R-Scale, 23°C)                        | 106                                |                   | ASTM D785   |
| Mechanical                                               | Nominal Value                      | Unit              | Test Method |
| Tensile Strength (Yield, 23°C)                           | 36.3                               | MPa               | ASTM D638   |
| Tensile Elongation (Break, 23°C)                         | 11                                 | %                 | ASTM D638   |
| Flexural Modulus (23°C)                                  | 3630                               | MPa               | ASTM D790   |
| Flexural Strength (Yield, 23°C)                          | 53.4                               | MPa               | ASTM D790   |
| Impact                                                   | Nominal Value                      | Unit              | Test Method |
| Notched Izod Impact (Area) (23°C)                        | 2.94                               | kJ/m <sup>2</sup> | ASTM D256   |
| Thermal                                                  | Nominal Value                      | Unit              | Test Method |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 142                                | °C                | ASTM D648   |
| Flammability                                             | Nominal Value                      |                   | Test Method |
| Flame Rating (1.50 mm)                                   | HB                                 |                   | UL 94       |
| Injection                                                | Nominal Value                      | Unit              |             |
| Drying Temperature                                       | 80.0 to 85.0                       | °C                |             |
| Drying Time                                              | 2.0 to 3.0                         | hr                |             |
| Processing (Melt) Temp                                   | 190 to 240                         | °C                |             |

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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

