

SimPoly 20TF0602

PP



| Product Description | | | | | |
|--|--|---------------|----------|---------------|---------|
| 20% Talc Reinforced Homopolymer PP | | | | | |
| General Properties | | | | | |
| Appearance | Black, Natural or Colors | | | | |
| Processing Methods | Injection, Profile Extrusion | | | | |
| Applications | Automotive, Material Handling, Lawn & Garden | | | | |
| Mechanical Properties | Test Method | English Units | | S.I. Units | |
| Tensile Strength @ Yield | ASTM D638 | 4,000 | psi | 28 | MPa |
| Tensile Strength @ Break | ASTM D638 | 7,830 | psi | 54 | MPa |
| Tensile Elongation at Break | ASTM D638 | 5 | % | 5 | % |
| Flexural Modulus | ASTM D790 | 350,000 | psi | 2,414 | MPa |
| Flexural Strength | ASTM D790 | 8,000 | psi | 55 | MPa |
| Notched Izod Impact (73°F) | ASTM D256 | 1.0 | ft-lb/in | 53 | J/m |
| Physical Properties | Test Method | English Units | | S.I. Units | |
| Specific Gravity | ASTM D792 | 1.04 | sp gr | 1.04 | sp gr |
| Melt Flow 230 °C/2.16kg | ASTM D1238 | 6.0 | g/10min | 6.0 | g/10min |
| Mold Shrink - Flow: 0.126 in (3.20 mm) | ASTM D955 | 0.009 - 0.013 | in/in | 0.009 - 0.013 | % |
| Injection Molding | | Value | | | |
| Rear Barrel Temperatures | | 370 - 420 | °F | | |
| Middle Barrel Temperatures | | 390 - 450 | °F | | |
| Front Barrel Temperatures | | 390 - 450 | °F | | |
| Nozzle Temperature | | 380 - 440 | °F | | |
| Melt (processing) Temperatures | | 400 - 500 | °F | | |
| Mold Temperatures | | 65 - 130 | °F | | |