

Technical Data Sheet

DuraGrip DGR-6090BKBLK



Thermoplastic Elastomer

Product Description

DuraGrip DGR 6090BK is designed to be a general-purpose Thermoplastic Elastomer (TPE) that is easy to use in injection molding and extrusion processes. DGR 6090BK has an excellent soft touch feel, will bond to olefins, and is easy to color. *DuraGrip* is not hygroscopic and under normal conditions does not require drying.

| | |
|--------------------------|------------------------------|
| Processing Method | Extrusion; Injection Molding |
| Forms | Pellets |
| Appearance | Black |
| Application | General Purpose |

| Typical Properties | Nominal Value | Units | Test Method |
|---|---------------|-------------------|-------------|
| Physical | | | |
| Density - Specific Gravity | 0.991 | g/cm ³ | ASTM D792 |
| Melt Viscosity, (190 °C, 295 sec ⁻¹ , Internal Method) | 133 | Pa·s | ASTM D3835 |
| Mechanical | | | |
| Tensile Stress at 100%, (23 °C) | 7.55 | MPa | ASTM D412 |
| Tensile Strength at Yield, (23 °C) | 13.4 | MPa | ASTM D412 |
| Tensile Elongation at Break | 560 | % | ASTM D412 |
| Hardness | | | |
| Durometer Hardness, (Shore A, 5 sec) | 88 | | ASTM D2240 |

| Injection Parameters | Nominal Value | Units |
|------------------------|---------------|-------|
| Drying Time | 3 | hr |
| Drying Temperature | 66 | °C |
| Nozzle Temperature | 204 to 221 | °C |
| Screw Speed | 25 to 100 | rpm |
| Processing (Melt) Temp | 199 to 221 | °C |
| Front Temperature | 216 to 227 | °C |
| Middle Temperature | 199 to 210 | °C |
| Rear Temperature | 188 to 199 | °C |
| Mold Temperature | 43 to 54 | °C |
| Injection Pressure | 1.03 to 4.14 | MPa |