

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 olefinics, 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