

Technical Data Sheet

DuraGrip DGR-6070BKBLK



Thermoplastic Elastomer

Product Description

DuraGrip 6070BK is a general-purpose Thermoplastic Elastomer (TPE) designed for injection molding processes. It has a high coefficient of friction, low melt viscosity and bonds well to polypropylene. *DuraGrip* 6070BK is not hygroscopic and under normal conditions does not require drying.

Processing Method	Injection Molding
Attribute	Good Adhesion; High Friction; Low Viscosity
Forms	Pellets
Appearance	Black
Application	General Purpose

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	0.983	g/cm ³	ISO 1183
Density - Specific Gravity	0.985	g/cm ³	ASTM D792
Melt Viscosity, (190 °C, 294 sec ⁻¹)	130	Pa·s	ASTM D3835
Mechanical			
Tensile Stress at 100%	2.62	MPa	ISO 37
Tensile Stress at 300%	3.43	MPa	ISO 37
Tensile Strength at Yield	8.34	MPa	ASTM D412
Tensile Stress at Yield	8.34	MPa	ISO 37
Tensile Strain at Break	640	%	ISO 37
Tensile Elongation at Break	640	%	ASTM D412
Tear Strength, (Die C)	28.5	kN/m	ASTM D624
Hardness			
Shore Hardness, (Shore A, 5 sec)	72		ISO 868
Durometer Hardness, (Shore A, 5 sec)	72		ASTM D2240

Injection Parameters	Nominal Value	Units
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