

DuraGrip DGR-6090BKBLK

LyondellBasell Industries - Thermoplastic Elastomer

General Information

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.

General

Uses	• General Purpose
Appearance	• Black
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

Properties¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.993		ASTM D792
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain, 73°F)	1100	psi	ASTM D412
Tensile Strength (Yield, 73°F)	1940	psi	ASTM D412
Tensile Elongation (Break)	560	%	ASTM D412
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	88		ASTM D2240
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (374°F, 295 sec ⁻¹)	133	Pa·s	Internal Method

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	151	°F
Drying Time	3.0	hr
Rear Temperature	370 to 390	°F
Middle Temperature	390 to 410	°F
Front Temperature	421 to 441	°F
Nozzle Temperature	399 to 430	°F
Processing (Melt) Temp	390 to 430	°F
Mold Temperature	109 to 129	°F
Injection Pressure	149 to 600	psi
Screw Speed	25 to 100	rpm