

DuraGrip DGR-6070BKBLK

LyondellBasell Industries - Thermoplastic Elastomer

General Information

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.

General

Features	• Good Adhesion	• High Friction	• Low Viscosity
Uses	• General Purpose		
Appearance	• Black		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.987		ASTM D792
Density	0.983	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	380	psi	ASTM D412
Tensile Stress (100% Strain)	380	psi	ISO 37
Tensile Stress (300% Strain)	497	psi	ASTM D412
Tensile Stress (300% Strain)	497	psi	ISO 37
Tensile Strength (Yield)	1210	psi	ASTM D412
Tensile Stress (Yield)	1210	psi	ISO 37
Tensile Elongation (Break)	640	%	ASTM D412
Tensile Elongation (Break)	640	%	ISO 37
Tear Strength ²	163	lbf/in	ASTM D624
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	72		ASTM D2240
Shore Hardness (Shore A, 5 sec)	72		ISO 868
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (374°F, 294 sec ⁻¹)	130	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
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