DuraGrip® DGR 6070BK

Thermoplastic Elastomer

Advanced Polymer Alloys

Message:

General Information

DuraGrip® 6070BK is a general purpose Thermoplastic Elastomer (TPE) designed for injection molding and extrusion 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.

Features	High Friction			
	Low viscosity			
	Good adhesion			
	General			
Agency Ratings	EU 2002/96/EC (WEEE)			
RoHS Compliance	RoHS compliance			
Appearance	Black			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity				
	0.985	g/cm³	ASTM D792	
	0.983	g/cm³	ISO 1183	
Molding Shrinkage			ASTM D955	
Flow: 1.59mm	2.1	%	ASTM D955	
Flow: 3.18mm	1.3	%	ASTM D955	
Transverse flow: 1.59mm	1.1	%	ASTM D955	
Transverse flow: 3.18mm	1.2	%	ASTM D955	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 5 sec)	72		ASTM D2240, ISO 868	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412, ISO 37	
100% strain	2.62	MPa	ASTM D412, ISO 37	
300% strain	3.43	MPa	ASTM D412, ISO 37	
Tensile Strength (Yield)	8.34	MPa	ASTM D412, ISO 37	
Tensile Elongation (Break)	640	%	ASTM D412, ISO 37	
Tear Strength ¹	28.5	kN/m	ASTM D624	
Fill Analysis	Nominal Value	Unit	Test Method	
Melt Viscosity (190°C, 294 sec^-1)	130	Pa·s	ASTM D3835	

Additional Information

The value listed as Density -Specific Gravity, ASTM D792, was tested in accordance with ASTM D471. The value listed as Density, ISO 1183, was tested in accordance with ISO 2781.

Injection	Nominal Value	Unit	
Rear Temperature	188 - 199	°C	
Middle Temperature	199 - 210	°C	
Front Temperature	216 - 227	°C	
Nozzle Temperature	204 - 221	°C	
Processing (Melt) Temp	199 - 221	°C	
Mold Temperature	43.3 - 54.4	°C	
Injection Pressure	1.03 - 4.14	МРа	
Screw Speed	25 - 100	rpm	
Injection instructions			

Injection Speed: 1 to 3 in³/secInjection Time (1st Stage/Boost): 0.5 to 4 secSecond Stage Pressure: 150 to 300 psiSecond Stage Time: 3 to 10 secCooling Time: 10 to 20 secBack Pressure: 20 to 75 %

NOTE

1. C mould

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