DuraGrip® DGR 6140NC

Thermoplastic Elastomer

Advanced Polymer Alloys

Message:

DuraGrip® 6140NC is an enhanced bonding and adhesion grade Thermoplastic Elastomer (TPE) designed for injection molding and extrusion processes. It will bond well with polycarbonate, polycarbonate alloys, ABS, ASA, acrylics, cellulosics, and some nylons in insert molding, coinjection molding and coextrusion processes. DuraGrip® 6140NC is hygroscopic and requires drying at 150°F for 3-4 hours for optimum aesthetics, properties and adhesion.

General Information	
Features	Good adhesion
Agency Ratings	EU 2002/96/EC (WEEE)
RoHS Compliance	RoHS compliance
Appearance	Natural color
Forms	Particle
Processing Method	Co-extrusion molding
	Extrusion
	Injection molding

Nominal Value	Unit	Test Method
1.03	g/cm³	ASTM D792, ISO 1183
Nominal Value	Unit	Test Method
45		ASTM D2240, ISO 868
Nominal Value	Unit	Test Method
		ASTM D412, ISO 37
1.17	MPa	ASTM D412, ISO 37
2.07	MPa	ASTM D412, ISO 37
2.96	MPa	ASTM D412, ISO 37
410	%	ASTM D412, ISO 37
16.5	kN/m	ASTM D624
Nominal Value	Unit	Test Method
374	Pa·s	ASTM D3835
	1.03 Nominal Value 45 Nominal Value 1.17 2.07 2.96 410 16.5 Nominal Value	1.03 g/cm³ Nominal Value Unit 45 Unit 1.17 MPa 2.07 MPa 410 % 16.5 kN/m Nominal Value Unit

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	204 - 221	°C
Middle Temperature	216 - 227	°C
Front Temperature	227 - 238	°C
Nozzle Temperature	227 - 249	°C
Processing (Melt) Temp	227 - 254	°C
Mold Temperature	43.3 - 54.4	°C

Injection Pressure	2.76 - 5.52	MPa
Screw Speed	50 - 150	rpm

Injection instructions

Injection Speed: 1 to 3 in³/secInjection Time (1st Stage/Boost): 0.5 to 4 secSecond Stage Pressure: 300 to 500 psiSecond Stage Time: 3 to 10 secCooling Time: 10 to 25 secBack Pressure: 25 to 75 %

NOTE

1. C mould

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

