DuraGrip® DGR 6850NC

Thermoplastic Elastomer

Advanced Polymer Alloys

Message:

DuraGrip® 6850NC is an FDA compliant Thermoplastic Elastomer (TPE) that is easy to use in injection molding and extrusion processes. DuraGrip® 6850NC has an excellent soft touch feel, good elasticity, will bond to polypropylene and some polyethylenes. It complies with 21 C.F.R.177.2600 and 21 C.F.R.177.1210 (non-fatty/non-oily foodstuffs). DuraGrip® 6850NC is not hygroscopic and under normal conditions does not require drying.

General Information				
Features	Good adhesion			
Agency Ratings	EU 2002/96/EC (WEEE)			
	FDA 21 CFR 177.1210			
	FDA 21 CFR 177.2600			
RoHS Compliance	RoHS compliance			
Appearance	Natural color			
Forms	Particle			
Processing Method	Extrusion			
	Injection molding			
Physical	Nominal Value	Unit	Test Method	
Specific Gravity	0.978	g/cm³	ASTM D792, ISO 1183	
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	20	g/10 min	ASTM D1238	
Hardness	Nominal Value	Unit	Test Method	
Durometer Hardness (Shore A, 5 sec)	55		ASTM D2240, ISO 868	
Elastomers	Nominal Value	Unit	Test Method	
Tensile Stress			ASTM D412, ISO 37	
100% strain	1.86	MPa	ASTM D412, ISO 37	
300% strain	2.41	MPa	ASTM D412, ISO 37	
Tensile Strength (Yield)	7.72	MPa	ASTM D412, ISO 37	
Tensile Elongation (Break)	670	%	ASTM D412, ISO 37	
Tear Strength ¹	21.0	kN/m	ASTM D624	
Fill Analysis	Nominal Value	Unit	Test Method	
Melt Viscosity (190°C, 200 sec^-1)	154	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	℃

Nozzle Temperature	204 - 221	°C	
Processing (Melt) Temp	199 - 221	°C	
Mold Temperature	43.3 - 54.4	°C	
Screw Speed	25 - 100	rpm	
Injection instructions			

Injection Speed: 1 to 3 in 3 /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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

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

