

DuraGrip® DGR 6830NC

热塑性弹性体

LyondellBasell Industries

Technical Data

Product Description

DuraGrip® 6830NC is an FDA compliant Thermoplastic Elastomer (TPE) that is easy to use in injection molding and extrusion processes. DuraGrip® 6830NC 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® 6830NC is not hygroscopic and under normal conditions does not require drying.

General

Features	• 良好粘性		
Agency Ratings	• EU 2002/96/EC (WEEE)	• FDA 21 CFR 177.1210	• FDA 21 CFR 177.2600
RoHS Compliance	• RoHS 合规		
Appearance	• 自然色		
Forms	• 粒子		
Processing Method	• 挤出	• 注射成型	

Physical	额定值 单位制	测试方法
Density / Specific Gravity	0.973 g/cm³	ASTM D792 ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	16 g/10 min	ASTM D1238

Elastomers	额定值 单位制	测试方法
Tensile Stress		ASTM D412 ISO 37
100%应变	1.10 MPa	
300%应变	1.55 MPa	
Tensile Strength (屈服)	4.48 MPa	ASTM D412 ISO 37
Tensile Elongation (断裂)	750 %	ASTM D412 ISO 37
Tear Strength ³	13.1 kN/m	ASTM D624

Hardness	额定值 单位制	测试方法
Durometer Hardness (邵氏 A, 5 秒)	32	ASTM D2240 ISO 868

Fill Analysis	额定值 单位制	测试方法
Melt Viscosity (190°C, 200 sec ⁻¹)	172 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	额定值 单位制
Rear Temperature	188 到 199 °C
Middle Temperature	199 到 210 °C
Front Temperature	216 到 227 °C
Nozzle Temperature	204 到 221 °C
Processing (Melt) Temp	199 到 221 °C
Mold Temperature	43 到 54 °C
Screw Speed	25 到 100 rpm

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Injection Notes

- Injection Speed: 1 to 3 in³/sec
- Injection Time (1st Stage/Boost): 0.5 to 4 sec
- Second Stage Pressure: 150 to 300 psi
- Second Stage Time: 3 to 10 sec
- Cooling Time: 10 to 20 sec
- Back Pressure: 20 to 75 %