

DuraGrip® DGR 7800

热塑性弹性体

LyondellBasell Industries

Technical Data

Product Description

DuraGrip® DGR 7800 is a specialty grade Thermoplastic Elastomers (TPE) that is formulated with FDA compliant raw materials and is easy to use in the injection molding and extrusion process. DGR 7800 has an excellent soft touch feel and will bond to olefinics.

General

Features	• 良好粘结性	• 柔软
Agency Ratings	• EU 2002/96/EC (WEEE)	• FDA 未评级
RoHS Compliance	• RoHS 合规	
Appearance	• 半透明	
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		
--	0.980 g/cm ³	ASTM D471
--	0.892 g/cm ³	ISO 1183
Molding Shrinkage		No Standard
流动 : 3.18 mm	1.9 %	
横向流动 : 3.18 mm	2.1 %	

Elastomers

	额定值 单位制	测试方法
Tensile Stress (100%应变)	2.36 MPa	ASTM D412 ISO 37
Tensile Strength (屈服)	7.18 MPa	ASTM D412 ISO 37
Tensile Elongation (断裂)	690 %	ASTM D412 ISO 37

Hardness

	额定值 单位制	测试方法
Durometer Hardness (邵氏 A, 5 秒)	59	ASTM D2240 ISO 868

Fill Analysis

	额定值 单位制	测试方法
Melt Viscosity (190°C, 300 sec ⁻¹)	120 Pa·s	ASTM D3835

Injection

	额定值 单位制
Drying Temperature	66 °C
Drying Time	3.0 hr
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
Injection Pressure	1.03 到 3.45 MPa
Screw Speed	25 到 100 rpm

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Injection Notes

Injection Speed: 1 to 3 cu. in. /sec.
Injection Time (boost: 0.5 to 2 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 50%