

DuraGrip DGR-7800NAT

LyondellBasell Industries - Thermoplastic Elastomer

General Information

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	• Good Adhesion	• Soft
Appearance	• Translucent	
Forms	• Pellets	
Processing Method	• Extrusion	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.980	g/cm ³	ASTM D471
Density	0.892	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	342	psi	ASTM D412
Tensile Stress (100% Strain)	342	psi	ISO 37
Tensile Strength (Yield)	1040	psi	ASTM D412
Tensile Stress (Yield)	1040	psi	ISO 37
Tensile Elongation (Break)	690	%	ASTM D412
Tensile Elongation (Break)	690	%	ISO 37
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	59		ASTM D2240
Shore Hardness (Shore A, 5 sec)	59		ISO 868
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (374°F, 300 sec ⁻¹)	120	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	151	°F
Drying Time	3.0	hr
Rear Temperature	370 to 390	°F
Middle Temperature	390 to 410	°F
Front Temperature	421 to 441	°F
Nozzle Temperature	399 to 430	°F
Processing (Melt) Temp	390 to 430	°F
Mold Temperature	109 to 129	°F
Injection Pressure	149 to 500	psi
Screw Speed	25 to 100	rpm