

DuraGrip DGR-6170NCNAT

LyondellBasell Industries - Thermoplastic Elastomer

General Information

Product Description

DuraGrip DGR 6170 is offered in an NC (colorable) version, and is designed to chemically bond to a wide variety of thermoplastic substrates including ABS, PC, Nylon 6, Nylon 6/6, glass filled Nylon, ASA, PC/ABS alloys, PBT, and PC/PBT alloys. It is easy to use in injection molding and extrusion processes. DGR 6170NC has excellent elastomeric properties and soft touch feel. DuraGrip bonding grades are hygroscopic, and for best results drying is recommended prior to use.

General

Features	• Good Adhesion
Forms	• Pellets
Processing Method	• Extrusion • Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		ASTM D792
Density	1.11	g/cm ³	ISO 1183
Elastomers	Nominal Value	Unit	Test Method
Tensile Stress (100% Strain)	347	psi	ASTM D412
Tensile Stress (100% Strain)	347	psi	ISO 37
Tensile Strength (Yield)	2150	psi	ASTM D412
Tensile Stress (Yield)	2150	psi	ISO 37
Tensile Elongation (Break)	530	%	ASTM D412
Tensile Elongation (Break)	530	%	ISO 37
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore A, 5 sec)	69		ASTM D2240
Shore Hardness (Shore A, 5 sec)	69		ISO 868
Fill Analysis	Nominal Value	Unit	Test Method
Melt Viscosity (374°F, 200 sec ⁻¹)	373	Pa·s	ASTM D3835

Processing Information

Injection	Nominal Value	Unit
Rear Temperature	399 to 430	°F
Middle Temperature	421 to 441	°F
Front Temperature	441 to 460	°F
Nozzle Temperature	441 to 480	°F
Processing (Melt) Temp	441 to 489	°F
Mold Temperature	109 to 129	°F
Injection Pressure	400 to 801	psi
Screw Speed	50 to 150	rpm