

Technical Data Sheet

DuraGrip DGR-6160NCNAT



Thermoplastic Elastomer

Product Description

DuraGrip DGR 6160 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 6160NC has excellent elastomeric properties and soft touch feel. *DuraGrip* bonding grades are hygroscopic, and for best results drying is recommended prior to use.

Regulatory Status

For regulatory compliance information, see DGR-6160NCNAT [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Europe; North America
Processing Method	Extrusion; Injection Molding
Attribute	Good Adhesion
Forms	Pellets

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.09	g/cm ³	ISO 1183
Density - Specific Gravity	1.09	g/cm ³	ASTM D792
Melt Viscosity, (190 °C, 200 sec ⁻¹)	354	Pa·s	ASTM D3835
Mechanical			
Tensile Stress at 100%	2.3	MPa	ISO 37
Tensile Strength at Yield	14.2	MPa	ASTM D412
Tensile Stress at Yield	14.2	MPa	ISO 37
Tensile Strain at Break	550	%	ISO 37
Tensile Elongation at Break	550	%	ASTM D412
Hardness			
Shore Hardness, (Shore A, 5 sec)	65		ISO 868
Durometer Hardness, (Shore A, 5 sec)	65		ASTM D2240



Injection Parameters	Nominal Value	Units
Nozzle Temperature	227 to 249	°C
Screw Speed	50 to 150	rpm
Processing (Melt) Temp	227 to 254	°C
Front Temperature	227 to 238	°C
Middle Temperature	216 to 227	°C
Rear Temperature	204 to 221	°C
Mold Temperature	43 to 54	°C
Injection Pressure	2.76 to 5.52	MPa

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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