

Technical Data Sheet

DuraGrip DGR-6040BKBLK



Thermoplastic Elastomer

Product Description

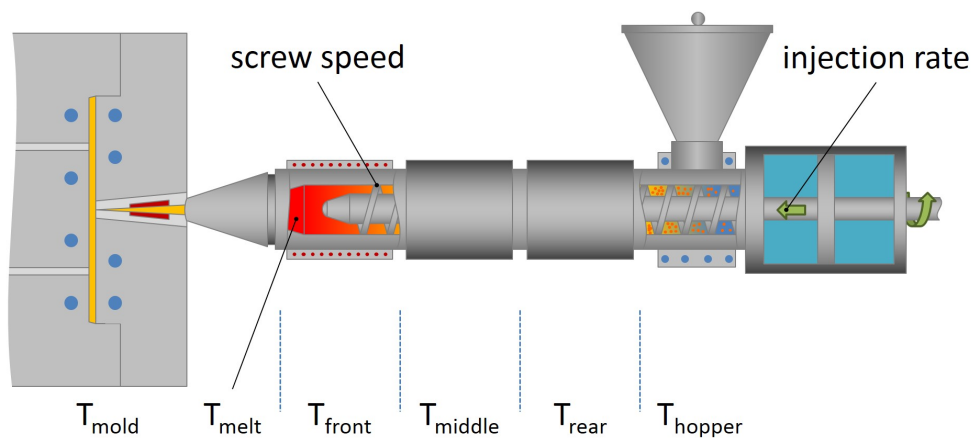
DuraGrip 6040BK is a general-purpose Thermoplastic Elastomer (TPE) designed for injection molding processes. It has a high coefficient of friction, low melt viscosity and bonds well to polypropylene. *DuraGrip* 6040BK is not hygroscopic and under normal conditions does not require drying.

Regulatory Status

For regulatory compliance information, see DGR-6040BKBLK [Product Stewardship Bulletin \(PSB\) and Safety Data Sheet \(SDS\)](#).

Status	Commercial: Active
Availability	Asia-Pacific; Europe; North America
Processing Method	Injection Molding
Attribute	Good Adhesion; High Friction; Low Viscosity
Forms	Pellets
Appearance	Black
Application	General Purpose

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density - Specific Gravity	0.98	g/cm ³	ASTM D471
Melt Viscosity, (190 °C, 294 sec ⁻¹)	140	Pa·s	ASTM D3835
Mechanical			
Tensile Strength at Yield	4.2	MPa	ASTM D412
Tensile Elongation at Break	780	%	ASTM D412
Tear Strength, (Die C)	21	kN/m	ASTM D624
Hardness			
Durometer Hardness, (Shore A, 5 sec)	38		ASTM D2240
Additional Information			
Compression Set			
(24 °C, 22 hr, Method B)	14	%	ASTM D395
(70 °C, 22 hr, Method B)	36	%	ASTM D395
(100 °C, 22.0 hr, Method B)	59	%	ASTM D395



Injection Parameters	Nominal Value	Units
Drying Time, (Desiccant Dryer)	3	hr
Drying Temperature	66	°C
Nozzle Temperature	204 to 221	°C
Screw Speed	25 to 100	rpm
Processing (Melt) Temp	199 to 221	°C
Front Temperature	216 to 227	°C
Middle Temperature	199 to 210	°C
Rear Temperature	188 to 199	°C
Mold Temperature	43 to 54	°C
Injection Pressure	1.03 to 4.14	MPa

Notes

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

Processing Techniques

Users should determine the conditions necessary to obtain optimum product properties and suitability of the product for the intended application.

Company Information

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

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