

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.

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