

DPS DYN-RPPCG20 BK

Polypropylene Copolymer
Dynamic Polymer Solutions

Technical Data			
Product Description			
Polypropylene Copolymer, 20% chemically coupled, glass fiber reinforced black Produced with recycled content			
General			
Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Recycled Content	• Yes		
Features	• Chemically Coupled	• Copolymer	
Appearance	• Black		
Processing Method	• Injection Molding		
Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity			
--	1.04	1.04 g/cm³	ASTM D792
73°F (23°C)	1.04 g/cm³	1.04 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20 g/10 min	20 g/10 min	ASTM D1238 ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ³	413000 psi	2850 MPa	ASTM D638
--	412000 psi	2840 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	7800 psi	53.8 MPa	ASTM D638
Yield	7690 psi	53.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	5.0 %	5.0 %	ASTM D638
Break	4.3 %	4.3 %	ISO 527-2/50
Flexural Modulus ⁵			
--	405000 psi	2790 MPa	ASTM D790
--	453000 psi	3120 MPa	ISO 178
Flexural Strength ⁵	10300 psi	71.0 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	7.0 ft·lb/in²	15 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	1.8 ft·lb/in	96 J/m	ASTM D256
73°F (23°C)	5.1 ft·lb/in²	11 kJ/m²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	284 °F	140 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	253 °F	123 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	270 °F	132 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	237 °F	114 °C	ISO 75-2/A

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	77 to 104 °F	25 to 40 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Suggested Max Moisture	< 0.050 %	< 0.050 %
Processing (Melt) Temp	419 to 464 °F	215 to 240 °C
Mold Temperature	77 to 122 °F	25 to 50 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	75.0 to 115 psi	0.517 to 0.793 MPa

Notes

- ¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.
- ² Typical properties: these are not to be construed as specifications.
- ³ 0.39 in/min (10 mm/min)
- ⁴ 2.0 in/min (50 mm/min)
- ⁵ 0.20 in/min (5.0 mm/min)

