

DPS DYN-PPCG20 NC

Polypropylene Copolymer
Dynamic Polymer Solutions

Technical Data			
Product Description			
Polypropylene Copolymer, 20% chemically coupled, glass fiber reinforced natural			
General			
Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Chemically Coupled • Copolymer		
Appearance	• Natural Color		
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	459000 psi	3160 MPa	ASTM D638
--	458000 psi	3160 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	8100 psi	55.8 MPa	ASTM D638
Yield	7980 psi	55.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	5.0 %	5.0 %	ASTM D638
Break	5.0 %	5.0 %	ISO 527-2/50
Flexural Modulus ⁵			
--	450000 psi	3100 MPa	ASTM D790
--	522000 psi	3600 MPa	ISO 178
Flexural Strength ⁵	12200 psi	84.1 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	8.1 ft·lb/in²	17 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	2.2 ft·lb/in	120 J/m	ASTM D256
73°F (23°C)	6.3 ft·lb/in²	13 kJ/m²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	289 °F	143 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	261 °F	127 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	275 °F	135 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	244 °F	118 °C	ISO 75-2/A

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	437 to 491 °F	225 to 255 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Moderate-Fast	Moderate-Fast
Back Pressure	85.0 to 125 psi	0.586 to 0.862 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)

