

DPS DYN-PPCG40 NC

Polypropylene Copolymer
Dynamic Polymer Solutions

Technical Data			
Product Description			
Polypropylene Copolymer, 40% chemically coupled, glass fiber reinforced natural			
General			
Material Status	• Commercial: Active		
Literature ¹	• Technical Datasheet (English)		
Availability	• North America		
Filler / Reinforcement	• Glass Fiber, 40% 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			
--	1.22	1.22 g/cm³	ASTM D792
73°F (23°C)	1.22 g/cm³	1.22 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	15 g/10 min	15 g/10 min	ASTM D1238 ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus			
-- ³	979000 psi	6750 MPa	ASTM D638
--	978000 psi	6740 MPa	ISO 527-1/10
Tensile Strength			
Yield ⁴	12500 psi	86.2 MPa	ASTM D638
Yield	12500 psi	86.0 MPa	ISO 527-2/50
Tensile Elongation			
Break ⁴	4.0 %	4.0 %	ASTM D638
Break	3.0 %	3.0 %	ISO 527-2/50
Flexural Modulus ⁵			
--	950000 psi	6550 MPa	ASTM D790
--	1.29E+6 psi	8900 MPa	ISO 178
Flexural Strength ⁵	16000 psi	110 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	6.2 ft·lb/in²	13 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	2.8 ft·lb/in	150 J/m	ASTM D256
73°F (23°C)	8.0 ft·lb/in²	17 kJ/m²	ISO 180
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	306 °F	152 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	286 °F	141 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	295 °F	146 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	270 °F	132 °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	437 to 491 °F	225 to 255 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Injection Rate	Fast	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)

