DPS DYN-RPPCG30 BK

Polypropylene Copolymer

Dynamic Polymer Solutions

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Technical Data

Product Description		
Polypropylene Copolymer, 30% 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, 30% 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			
--	1.13	1.13 g/cm³	ASTM D792
73°F (23°C)	1.13 g/cm³	1.13 g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	18 g/10 min	18 g/10 min	ASTM D1238 ISO 1133
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Modulus			
-- [3]	539000 psi	3720 MPa	ASTM D638
--	538000 psi	3710 MPa	ISO 527-1/10
Tensile Strength			
Yield [4]	9000 psi	62.1 MPa	ASTM D638
Yield	8850 psi	61.0 MPa	ISO 527-2/50
Tensile Elongation			
Break [4]	4.0 %	4.0 %	ASTM D638
Break	2.6 %	2.6 %	ISO 527-2/50
Flexural Modulus [5]			
--	550000 psi	3790 MPa	ASTM D790
--	830000 psi	5720 MPa	ISO 178
Flexural Strength [5]	11500 psi	79.3 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Charpy Notched Impact Strength (73°F (23°C))	4.1 ft·lb/in²	8.7 kJ/m²	ISO 179
Notched Izod Impact			
73°F (23°C)	2.0 ft·lb/in	110 J/m	ASTM D256
73°F (23°C)	5.7 ft·lb/in²	12 kJ/m²	ISO 180
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			
66 psi (0.45 MPa), Unannealed	295 °F	146 °C	ASTM D648
66 psi (0.45 MPa), Unannealed	261 °F	127 °C	ISO 75-2/B
264 psi (1.8 MPa), Unannealed	280 °F	138 °C	ASTM D648
264 psi (1.8 MPa), Unannealed	248 °F	120 °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	113 to 149 °F	45 to 65 °C
Injection Rate	Fast	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)

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