

Technical Data

Product Description

H20Z-00 is a nucleated and antistatic polypropylene homopolymer for applications in injection molding, consumer products, housewares, and rigid packaging. This grade has easy moldability, fast cycle times, improved stiffness, and low static charge. This grade has been recognized by UL and meets the requirements of the U.S. Food and Drug Administration specified in 21 CFR 177.1520.

General

Material Status	• Commercial: Active
Literature <sup>1</sup>	• <a href="#">Processing - Injection Molding Tips (English)</a> • <a href="#">Processing - Polypropylene (English)</a> • <a href="#">Technical Datasheet (English)</a>
UL Yellow Card <sup>2</sup>	• <a href="#">E31830-100062241</a>
Search for UL Yellow Card	• <a href="#">INEOS Olefins &amp; Polymers USA</a>
Availability	• North America
Additive	• Antistatic • Nucleating Agent
Features	• Antistatic • Fast Molding Cycle • Food Contact Acceptable • Good Moldability • Homopolymer • Nucleated
Uses	• Consumer Applications • Household Goods • Rigid Packaging
Agency Ratings	• EC 1907/2006 (REACH) • FDA 21 CFR 177.1520
RoHS Compliance	• Contact Manufacturer
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Specific Gravity	0.911	0.909 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	19 g/10 min	19 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength <sup>4</sup>			ASTM D638
Yield	5440 psi	37.5 MPa	
Break	2710 psi	18.7 MPa	
Tensile Elongation <sup>4</sup>			ASTM D638
Yield	8.0 %	8.0 %	
Break	49 %	49 %	
Flexural Modulus - 1% Secant	262000 psi	1810 MPa	ASTM D790A
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact (73°F (23°C))	0.62 ft·lb/in	33 J/m	ASTM D256
Notched Izod Impact (Area) (73°F (23°C))	1.56 ft·lb/in <sup>2</sup>	3.27 kJ/m <sup>2</sup>	ASTM D256
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	105	105	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	237 °F	114 °C	ASTM D648
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	HB	HB	UL 94
Optical	Nominal Value (English)	Nominal Value (SI)	Test Method
Gloss (60°)	91	91	ASTM D2457
Haze <sup>5</sup> (50.0 mil (1270 µm))	68 %	68 %	ASTM D1003



#### Notes

<sup>1</sup> 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.

<sup>2</sup> A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL Prospector continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

<sup>3</sup> Typical properties: these are not to be construed as specifications.

<sup>4</sup> 2.0 in/min (51 mm/min)

<sup>5</sup> 23°C

