

## Nylene® 5233 HS

Polymeric Resources Corporation (PRC) - Polyamide 6

### General Information

#### Product Description

- Nylene 5233 HS is a glass fiber-reinforced, long-term thermally stabilized nylon featuring high tensile strength, stiffness and impact resistance.

#### General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Additive	• Heat Stabilizer
Features	<ul style="list-style-type: none"> <li>• Chemical Resistant</li> <li>• Good Moldability</li> <li>• Good Thermal Stability</li> <li>• Heat Stabilized</li> <li>• High Stiffness</li> <li>• High Strength</li> <li>• Pleasing Surface Appearance</li> </ul>
Uses	<ul style="list-style-type: none"> <li>• Automotive Applications</li> <li>• Furniture</li> <li>• Handles</li> <li>• Household Goods</li> <li>• Housings</li> <li>• Power/Other Tools</li> <li>• Sporting Goods</li> </ul>
Automotive Specifications	• STELLANTIS MS-DB-41 CPN3465
Forms	• Pellets
Processing Method	• Injection Molding

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.37		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	23500	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	1.35E+6	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F)	2.1	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
Peak Melting Temperature	419	°F	ASTM D3418

### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

