Nylene® 52HSL

Polymeric Resources Corporation (PRC) - *Polyamide 6*

General Information

Product Description			
Improved Viscosity, Heat Stabilized, Lubricated, Nylon 6			
General			
Material Status	• Commercial: Active		
Availability	• North America		
Additive	• Heat Stabilizer	• Lubricant	
Features	• Heat Stabilized	• Lubricated	• Medium Viscosity
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties [1]

Physical	**Nominal Value**	**Unit**	**Test Method**
Density / Specific Gravity	1.13		ASTM D792
Viscosity Number	135	cm³/g	ISO 307
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield, 73°F)	11000	psi	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	420000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	0.81	ft·lb/in	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	379	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed, 0.125 in)	140	°F	ASTM D648
Peak Melting Temperature	428	°F	ASTM D3418
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating (0.12 in)	HB		UL 94

Processing Information

Injection	**Nominal Value**	**Unit**
Drying Temperature	180	°F
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	2.0E-3	%
Rear Temperature	441 to 500	°F
Middle Temperature	441 to 500	°F
Front Temperature	450 to 520	°F
Nozzle Temperature	450 to 520	°F
Processing (Melt) Temp	450 to 520	°F
Mold Temperature	81 to 160	°F
Back Pressure	50.0 to 100	psi

Notes

[1] Typical properties: these are not to be construed as specifications.