Technical Data Sheet

Ferro Pp LPP10BK38BK

Polypropylene
LyondellBasell Industries
Engineering Plastics

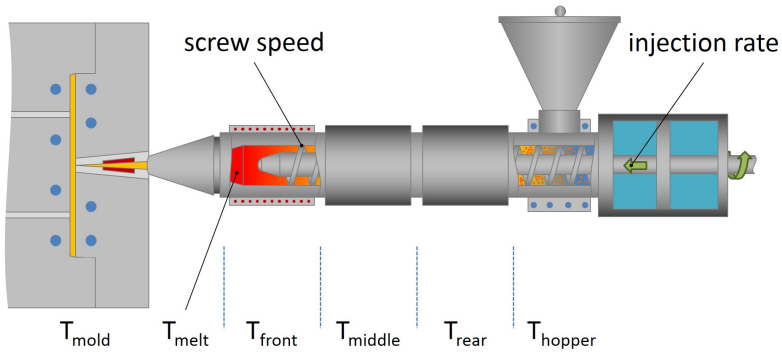
General		
Filler / Reinforcement	• Calcium Carbonate, 10% Filler by Weight	
Additive	• Heat Stabilizer	• Impact Modifier
Features	• Heat Stabilized	• Impact Modified
Appearance	• Black	
Forms	• Pellets	
Processing Method	• Injection Molding	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.980	0.978 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	13 g/10 min	13 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°f (23°c))	4200 psi	29.0 MPa	ASTM D638
Tensile Elongation (Break, 73°f (23°c))	25 %	25 %	ASTM D638
Flexural Modulus			ASTM D790
1% Secant : 73°f (23°c)	177000 psi	1220 MPa	
Tangent : 73°f (23°c)	235000 psi	1620 MPa	
Flexural Strength (73°f (23°c))	5400 psi	37.2 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	0.90 ft·lb/in	48 J/m	ASTM D256
Unnotched Izod Impact (73°f (23°c))	12 ft·lb/in	650 J/m	ASTM D4812
Gardner Impact (73°f (23°c))	28.0 in·lb	3.16 J	ASTM D5420
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Durometer Hardness (Shore D)	70	70	ASTM D2240
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	235 °F	113 °C	
264 Psi (1.8 Mpa), Unannealed	148 °F	64.4 °C	

Technical Data Sheet

Ferro Pp LPP10BK38BK

Polypropylene
LyondellBasell Industries
Engineering Plastics



Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Rear Temperature	395 to 400 °F	202 to 204 °C
Middle Temperature	400 to 410 °F	204 to 210 °C
Front Temperature	410 to 415 °F	210 to 213 °C
Nozzle Temperature	415 to 425 °F	213 to 218 °C
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C
Back Pressure	50.0 to 100 psi	0.345 to 0.689 MPa

Notes

These are typical property values not to be construed as specification limits.