Technical Data Sheet

Gapex RPP20EA10BK

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description
Primary use is for structural or semi-structural applications, such as fender aprons.

General		
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight	
Additive	• Heat Stabilizer	
Features	• Chemically Coupled	• Heat Stabilized
Uses	• Automotive Applications	• Structural Parts
Appearance	• Black	
Forms	• Pellets	

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.05	1.05 g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°c/2.16 Kg)	4.8 g/10 min	4.8 g/10 min	ASTM D1238
Mechanical	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Tensile Strength (73°f (23°c))	8180 psi	56.4 MPa	ASTM D638
Flexural Modulus	522000 psi	3600 MPa	ASTM D790
Impact	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Notched Izod Impact (73°f (23°c))	1.0 ft·lb/in	56 J/m	ASTM D256
Unnotched Izod Impact (73°f (23°c))	6.9 ft·lb/in	370 J/m	ASTM D4812
Hardness	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Rockwell Hardness (R-scale)	104	104	ASTM D785
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ASTM D648
66 Psi (0.45 Mpa), Unannealed	311 °F	155 °C	
264 Psi (1.8 Mpa), Unannealed	282 °F	139 °C	

Additional Information
The value listed as Unnotched Izod Impact, ASTM D256, was tested in accordance with ASTM D4812.

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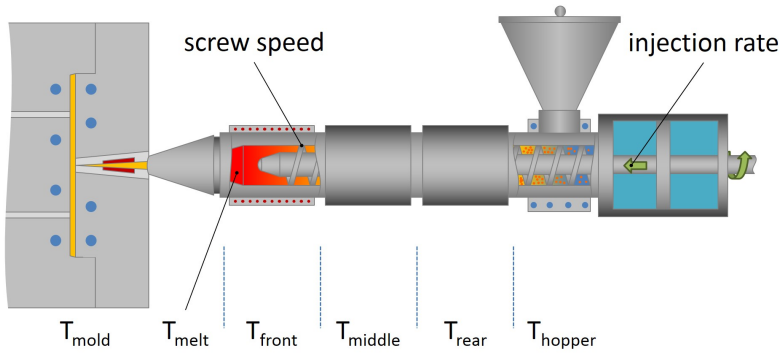

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	160 to 180 °F	71 to 82 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	430 to 460 °F	221 to 238 °C
Middle Temperature	440 to 470 °F	227 to 243 °C
Front Temperature	450 to 500 °F	232 to 260 °C
Nozzle Temperature	450 to 500 °F	232 to 260 °C
Processing (Melt) Temp	430 to 460 °F	221 to 238 °C
Mold Temperature	100 to 150 °F	38 to 66 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	20.0 to 50.0 psi	0.138 to 0.345 MPa
Cushion	0.200 to 0.500 in	5.08 to 12.7 mm

Notes

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