

Technical Data Sheet

Icorene RPE20HW16HB-GYGRY



Polyethylene, Unspecified

Product Description

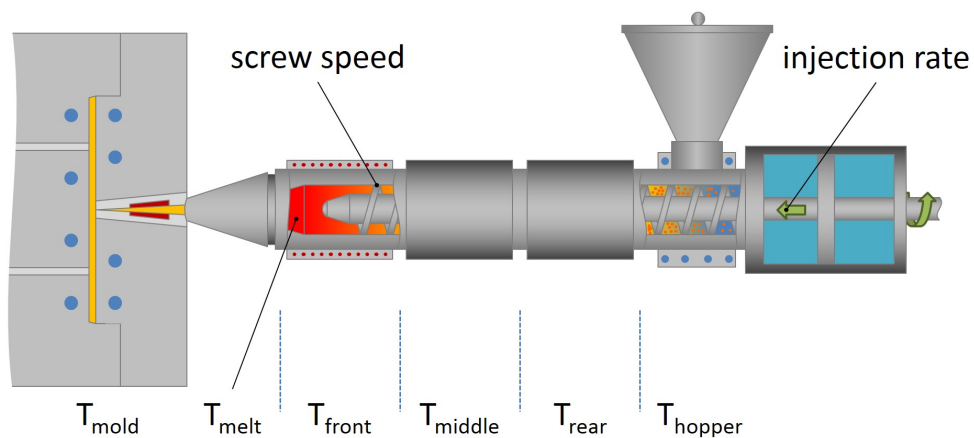
Icorene RPE20HW16HB-GYGRY is a Polyethylene, Unspecified Glass Fiber, 20% filled material and is typically used in Injection Molding applications.

Regulatory Status

For regulatory compliance information, see RPE20HW16HB-GYGRY [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

Status	Discontinued
Availability	Latin America; North America
Processing Method	Injection Molding
Forms	Pellets
Filler/Reinforcement	Glass Fiber, 20%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Melt Flow Rate, (230 °C/2.16 kg)	4.5	g/10 min	ASTM D1238
Density - Specific Gravity	1.1	g/cm ³	ASTM D792
Mechanical			
Tensile Strength at Yield	33.8	MPa	ASTM D638
Flexural Strength at Yield	48.3	MPa	ASTM D790
Flexural Modulus	2720	MPa	ASTM D790
Tensile Elongation at Break	4	%	ASTM D638
Impact			
Gardner Impact, (3.18 mm)	0.565	J	ASTM D3029
Unnotched Izod Impact, (23 °C)	210	J/m	ASTM D4812
Notched Izod Impact, (23 °C)	53	J/m	ASTM D256
Hardness			
Durometer Hardness, (Shore D)	67		ASTM D2240
Thermal			
Deflection Temperature Under Load Unannealed (264 psi)	93.3	°C	ASTM D648
Deflection Temperature Under Load Unannealed (66 psi)	124	°C	ASTM D648



Injection Parameters	Nominal Value	Units
Drying Time	2	hr
Drying Temperature	93	°C
Clamp Tonnage	2.8 to 4.1	kN/cm ²
Nozzle Temperature	216 to 249	°C
Screw Speed	40 to 100	rpm
Front Temperature	216 to 249	°C
Screw L/D Ratio	20.0-1.0	
Screw Compression Ratio	2.0-1.0	
Middle Temperature	204 to 249	°C
Rear Temperature	199 to 221	°C
Back Pressure	0.138 to 0.345	MPa
Mold Temperature	27 to 66	°C

Notes

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

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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