Borealis PP EE002AE

Polypropylene

Borealis AG

Message:

EE002AE is a reactor elastomer modified polypropylene intended for injection moulding. The product is available in natural colour.
This material has excellent balanced mechanical properties and gives a good surface quality.

General Information			
Features	Recyclable materials		
Uses	Car anti-collision bar Automotive exterior parts Car exterior decoration		
Appearance	Natural color		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	0.905	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11	g/10 min	ISO 1133
Molding Shrinkage	1.5	%	Internal method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness	40.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (1.00 mm)	1100	MPa	ISO 527-2
Tensile Stress (Yield)	20.0	MPa	ISO 527-2/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/50
Flexural Modulus [1]	1000	MPa	ISO 178
Flexural Stress	24.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	7.0	kJ/m²	ISO 179/1eA
-20°C	9.0	kJ/m²	ISO 179/1eA
23°C	65	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Notched Izod Impact			ISO 180/1A
-20°C	9.0	kJ/m²	ISO 180/1A
23°C	55	kJ/m²	ISO 180/1A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			

0.45 MPa, not annealed	76.0	°C	ISO 75-2/B
1.8 MPa, not annealed	49.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	135	°C	ISO 306/A
--	45.0	°C	ISO 306/B
CLTE - Flow (80°C)	1.0E-4	cm/cm/°C	Internal method
Melt Energy	80.0	kJ/kg	ISO 11357

Injection	Nominal Value	Unit
Mold Temperature	30.0 - 50.0	°C
Holding Pressure	30.0 - 60.0	MPa

Injection instructions
Feeding temperature 40 - 80 °CMass temperature 220 - 260 °CBack pressure Low to mediumHolding pressure 30 - 60 barMould temperature 30 - 50 °CScrew speed Low to mediumFlow front speed 100 - 200 m/min

NOTE	
1.	2.0 mm/min

Recommended distributors for this material

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