MAJORIS AN081

Polypropylene Copolymer

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Message:

AN081 is a polypropylene copolymer for injection moulding, extrusion and blow moulding.
APPLICATIONS
AN081 is recommended for applications like:
Heater housings
Break fluid reservoirs

General Information	
Features	Copolymer Recyclable Material
Uses	Automotive Applications Housings
Forms	Pellets
Processing Method	Blow Molding Extrusion 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)	0.30	g/10 min	ISO 1133
Molding Shrinkage	1.9	%	Internal Method
Hardness	**Nominal Value**	**Unit**	**Test Method**
Ball Indentation Hardness (H 132/10)	48.0	MPa	ISO 2039-1
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	1150	MPa	ISO 527-2/1
Tensile Stress (Yield)	27.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	11	%	
Break	> 300	%	
Flexural Modulus [1]	1350	MPa	ISO 178
Flexural Stress	35.0	MPa	ISO 178
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	3.8	kJ/m²	
-20°C	4.0	kJ/m²	
23°C	60	kJ/m²	

Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	No Break		
23°C	No Break		
Notched Izod Impact Strength			ISO 180/1A
-20°C	5.5	kJ/m^2	
23°C	55	kJ/m^2	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	80.0	°C	ISO 75-2/B
1.8 MPa, Unannealed	50.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	151	°C	ISO 306/A
--	70.0	°C	ISO 306/B
CLTE - Flow (-30 to 80°C)	8.2E-5	cm/cm/°C	Internal Method
Flammability	**Nominal Value**		**Test Method**
Flame Rating	HB		UL 94
Injection	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Rear Temperature	40.0 to 80.0	°C	
Processing (Melt) Temp	220 to 260	°C	
Mold Temperature	30.0 to 50.0	°C	
Holding Pressure	30.0 to 60.0	MPa	
Injection Velocity	100 to 200	mm/sec	
Head Temperature	220 to 260	°C	
Extrusion	**Nominal Value**	**Unit**	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Cylinder Zone 1 Temp.	210 to 250	°C	
Cylinder Zone 3 Temp.	210 to 250	°C	
Cylinder Zone 5 Temp.	210 to 250	°C	
Melt Temperature	220 to 260	°C	
Die Temperature	220 to 260	°C	
NOTE			
1.	2.0 mm/min		

Recommended distributors for this material

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