

Generic PP Impact Copolymer

Polypropylene Impact Copolymer

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	0.892 - 0.902	g/cm ³	ASTM D792
23°C	0.898 - 0.907	g/cm ³	ISO 1183
--	0.900 - 0.906	g/cm ³	ASTM D1505
Melt Mass-Flow Rate (MFR)			
230°C/2.16 kg	0.30 - 37	g/10 min	ASTM D1238
230°C/2.16 kg	0.20 - 25	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	1.80 - 135	cm ³ /10min	ISO 1133
Spiral Flow	79.1 - 80.0	cm	
Molding Shrinkage			
Flow: 23°C	1.2 - 1.7	%	ASTM D955
Transverse flow: 23°C	1.4 - 1.7	%	ASTM D955
23°C	1.2 - 1.9	%	ISO 294-4
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness			
23°C	75 - 106		ASTM D785
23°C	70 - 105		ISO 2039-2
Durometer Hardness			
23°C	21 - 71		ASTM D2240
23°C	59 - 66		ISO 868
Ball Indentation Hardness	42.0 - 69.7	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	1000 - 1510	MPa	ASTM D638
23°C	975 - 1620	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	19.3 - 30.7	MPa	ASTM D638
Yield, 23°C	19.5 - 29.3	MPa	ISO 527-2
Fracture, 23°C	17.3 - 19.8	MPa	ASTM D638
Fracture, 23°C	12.5 - 18.1	MPa	ISO 527-2
Tensile Elongation			

Yield, 23°C	3.0 - 13	%	ASTM D638
Yield, 23°C	3.4 - 12	%	ISO 527-2
Fracture, 23°C	2.0 - 520	%	ASTM D638
Fracture, 23°C	45 - 510	%	ISO 527-2
Flexural Modulus			
23°C	844 - 1560	MPa	ASTM D790
23°C	898 - 1570	MPa	ISO 178
Flexural Strength (23°C)	24.5 - 43.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.6 - 52	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	4.4 - 180	kJ/m ²	ISO 179
Notched Izod Impact			
23°C	39 - 160	J/m	ASTM D256
23°C	3.5 - 53	kJ/m ²	ISO 180
Unnotched Izod Impact (23°C)	59 - 140	J/m	ASTM D256
Dart Drop Impact (23°C)	12.7 - 24.8	J	ASTM D3029
Dart Drop Impact (23°C)	27.7 - 36.2	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	78.4 - 127	°C	ASTM D648
0.45 MPa, not annealed	68.9 - 107	°C	ISO 75-2/B
0.45 MPa, annealed	104 - 124	°C	ASTM D648
1.8 MPa, not annealed	48.2 - 60.3	°C	ASTM D648
1.8 MPa, not annealed	46.9 - 56.4	°C	ISO 75-2/A
Ductile / Brittle Transition Temperature	-60.0 - -45.0	°C	ISO 6603-2
Vicat Softening Temperature			
--	145 - 153	°C	ASTM D1525
--	64.5 - 155	°C	ISO 306
Melting Temperature			
--	140 - 166	°C	
--	163	°C	ISO 11357-3
--	165	°C	ISO 3146
RTI Elec	65.0 - 116	°C	UL 746
RTI Imp	65.0 - 116	°C	UL 746
RTI	65.0 - 116	°C	UL 746
Optical	Nominal Value	Unit	Test Method
Gloss	28 - 77		ASTM D2457
Haze	80 - 82	%	ASTM D1003
Injection	Nominal Value	Unit	
Rear Temperature	185 - 223	°C	
Middle Temperature	194 - 250	°C	
Front Temperature	203 - 260	°C	

Nozzle Temperature	239 - 251	°C
Processing (Melt) Temp	209 - 250	°C
Mold Temperature	34.9 - 49.8	°C
Injection Pressure	4.41 - 172	MPa
Holding Pressure	33.4 - 152	MPa
Screw Speed	55 - 56	rpm

Injection instructions

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Extrusion	Nominal Value	Unit
Melt Temperature	214 - 231	°C

Extrusion instructions

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