

## Technical Data

### Product Description

Hostacom  
ERC 213N C12360

Hostacom ERC 213N C12360 is a 15% talc filled PP copolymer, with good flowability, excellent impact/stiffness balance and good scratch resistance. Product is available as a customized color matched, pellet form. This grade is delivered in C12360 color version.

Generic  
PP, Unspecified

This data represents typical values that have been calculated from all products classified as: Generic PP, Unspecified

This information is provided for comparative purposes only.

### General

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**Generic**  
PP, Unspecified

General	Hostacom ERC 213N C12360	Generic PP, Unspecified
Manufacturer / Supplier	<ul style="list-style-type: none"> <li>LyondellBasell Industries</li> </ul>	<ul style="list-style-type: none"> <li>Generic</li> </ul>
Generic Symbol	<ul style="list-style-type: none"> <li>PP, Unspecified</li> </ul>	<ul style="list-style-type: none"> <li>PP, Unspecified</li> </ul>
Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Literature <sup>1</sup>	<ul style="list-style-type: none"> <li><a href="#">Technical Datasheet</a></li> </ul>	--
Search for UL Yellow Card	<ul style="list-style-type: none"> <li><a href="#">LyondellBasell Industries</a></li> <li><a href="#">Hostacom</a></li> </ul>	--
Availability	<ul style="list-style-type: none"> <li>Europe</li> </ul>	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> <li>Europe</li> <li>Latin America</li> <li>North America</li> </ul>
Features	<ul style="list-style-type: none"> <li>Good Impact Resistance</li> </ul>	--
Uses	<ul style="list-style-type: none"> <li>Automotive Applications</li> <li>Automotive Instrument Panel</li> </ul>	--
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>	--

### Physical

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PP, Unspecified

Unit

Test Method

Physical	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Density / Specific Gravity				
--	--	0.790 to 1.13	g/cm <sup>3</sup>	ASTM D792
--	--	0.893 to 1.08	g/cm <sup>3</sup>	ISO 1183
23°C	1.02	--	g/cm <sup>3</sup>	ISO 1183/A
--	--	0.896 to 0.902	g/cm <sup>3</sup>	ASTM D1505
Melt Mass-Flow Rate (MFR)				
230°C/2.16 kg	--	0.10 to 38	g/10 min	ASTM D1238
230°C/2.16 kg	18	0.30 to 30	g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	--	3.6 to 26	cm <sup>3</sup> /10min	ISO 1133
Molding Shrinkage				
Flow	--	0.54 to 1.9	%	ASTM D955
Across Flow	--	0.92 to 1.7	%	ASTM D955
--	--	0.53 to 1.8	%	ISO 294-4
Dimensional Change	--	2.9 to 6.0	%	ASTM D1042



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<b>Water Absorption</b>				
24 hr	--	9.8E-3 to 0.031	%	ASTM D570
24 hr, 23°C	--	0.010 to 0.10	%	ISO 62
Saturation	--	0.010 to 0.062	%	ASTM D570
Equilibrium	--	0.092 to 0.10	%	ASTM D570
Equilibrium, 23°C, 50% RH	--	0.010 to 0.10	%	ISO 62
Moisture Content	--	0.099 to 0.10	%	
Mechanical	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
<b>Tensile Modulus</b>				
--	--	248 to 2770	MPa	ASTM D638
--	--	884 to 2640	MPa	ISO 527-1
<b>Tensile Strength</b>				
Yield	--	19.7 to 39.3	MPa	ASTM D638
Yield	--	16.6 to 35.4	MPa	ISO 527-2
Yield, 23°C	18.5	--	MPa	ISO 527-2
Break	--	16.7 to 44.0	MPa	ASTM D638
Break	--	11.0 to 25.2	MPa	ISO 527-2
--	--	7.00 to 53.2	MPa	ASTM D638
--	--	16.6 to 33.7	MPa	ISO 527-2
<b>Tensile Elongation</b>				
Yield	--	0.75 to 13	%	ASTM D638
Yield	--	1.0 to 18	%	ISO 527-2
Break	--	2.0 to 510	%	ASTM D638
Break	--	0.40 to 510	%	ISO 527-2
<b>Flexural Modulus</b>				
--	--	172 to 1820	MPa	ASTM D790
--	--	784 to 2950	MPa	ISO 178
23°C <sup>3</sup>	1650	--	MPa	ISO 178/A
<b>Flexural Strength</b>				
--	--	24.7 to 54.5	MPa	ASTM D790
--	--	5.00 to 84.8	MPa	ISO 178
Yield	--	17.7 to 48.2	MPa	ASTM D790
Coefficient of Friction	--	0.20 to 0.25		ASTM D1894
Films	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Film Thickness - Tested	--	10 to 89	µm	
<b>Tensile Strength</b>				
MD : Yield	--	115 to 148	MPa	ASTM D882
TD : Yield	--	22.0 to 287	MPa	
<b>Tensile Elongation</b>				
MD : Break	--	140 to 190	%	ASTM D882
TD : Break	--	40 to 73	%	
Oxygen Transmission Rate	--	31 to 170	cm <sup>3</sup> /m <sup>2</sup> /24 hr	ASTM D3985
Water Vapor Transmission Rate	--	0.16 to 7.9	g/m <sup>2</sup> /24 hr	ASTM F1249



Elastomers	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Tensile Stress				ASTM D412
100% Strain	--	0.100 to 6.30	MPa	
300% Strain	--	0.300 to 8.00	MPa	
Tensile Strength (Break)	--	3.57 to 15.9	MPa	ASTM D412
Tensile Elongation (Break)	--	320 to 510	%	ASTM D412
Tear Strength	--	9.93 to 170	kN/m	ASTM D624
Impact	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Charpy Notched Impact Strength				
--	--	1.0 to 13	kJ/m <sup>2</sup>	ISO 179
-40°C	2.5	--	kJ/m <sup>2</sup>	ISO 179/1eA
23°C	40	--	kJ/m <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength	--	6.7 to 91	kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact				
--	--	7.5 to 130	J/m	ASTM D256
--	--	1.0 to 16	kJ/m <sup>2</sup>	ISO 180
-40°C	3.0	--	kJ/m <sup>2</sup>	ISO 180/1A
23°C	35	--	kJ/m <sup>2</sup>	ISO 180/1A
Notched Izod Impact (Area)	--	2.98 to 6.93	kJ/m <sup>2</sup>	ASTM D256
Unnotched Izod Impact				
--	--	29 to 110	J/m	ASTM D4812
--	--	7.3 to 98	kJ/m <sup>2</sup>	ISO 180
Instrumented Dart Impact	--	22.0 to 22.5	J	ASTM D3763
Gardner Impact	--	1.13 to 16.0	J	ASTM D3029
Gardner Impact	--	0.452 to 36.2	J	ASTM D5420
Hardness	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Rockwell Hardness				
--	--	74 to 106		ASTM D785
--	--	74 to 113		ISO 2039-2
Durometer Hardness				
--	--	40 to 98		ASTM D2240
--	--	39 to 78		ISO 868
Thermal	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Deflection Temperature Under Load				
0.45 MPa, Unannealed	--	76.9 to 141	°C	ASTM D648
0.45 MPa, Unannealed	95.0	72.5 to 131	°C	ISO 75-2/B
0.45 MPa, Annealed	--	80.0 to 130	°C	ASTM D648
1.8 MPa, Unannealed	--	47.3 to 106	°C	ASTM D648
1.8 MPa, Unannealed	--	45.0 to 164	°C	ISO 75-2/A
Continuous Use Temperature	--	74.5 to 90.3	°C	ASTM D794
Vicat Softening Temperature				
--	--	79.7 to 157	°C	ASTM D1525
--	--	69.4 to 156	°C	ISO 306



Thermal	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Melting Temperature				
--	--	159 to 182	°C	
--	--	130 to 165	°C	DSC ISO 3146
--	--	158 to 168	°C	ISO 11357-3
--	--	150 to 163	°C	ASTM D3418
CLTE - Flow				
--	--	4.9E-5 to 1.0E-4	cm/cm/°C	ASTM D696
--	--	4.8E-5 to 1.6E-4	cm/cm/°C	ISO 11359-2
Thermal Conductivity				
--	--	0.12 to 0.62	W/m/K	ASTM C177
--	--	0.20 to 0.22	W/m/K	ISO 8302
RTI Elec	--	65.0 to 115	°C	UL 746B
RTI Imp	--	65.0 to 121	°C	UL 746B
RTI Str	--	64.1 to 121	°C	UL 746B
Electrical	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Surface Resistivity				
--	--	1.0E+2 to 2.5E+16	ohms	ASTM D257
--	--	1.0E+2 to 1.3E+16	ohms	IEC 60093
--	--	1.0E+4 to 1.1E+14	ohms	IEC 62631-3-2
Volume Resistivity				
--	--	1.0 to 1.1E+16	ohms·cm	ASTM D257
--	--	5.0 to 5.8E+16	ohms·cm	IEC 60093
Dielectric Strength				
--	--	15 to 41	kV/mm	ASTM D149
--	--	18 to 51	kV/mm	IEC 60243-1
Dielectric Constant				
--	--	2.29 to 2.31		ASTM D150
--	--	2.26 to 2.41		IEC 60250
--	--	2.30		IEC 60250
Dissipation Factor				
--	--	2.8E-4 to 3.2E-3		ASTM D150
--	--	1.9E-4 to 2.6E-3		IEC 60250
Arc Resistance	--	129 to 192	sec	ASTM D495
Comparative Tracking Index (CTI)	--	600	V	UL 746A
Comparative Tracking Index	--	581 to 603	V	IEC 60112
High Amp Arc Ignition (HAI)	--	196 to 200		UL 746A
High Voltage Arc Tracking Rate (HVTR)	--	0.00 to 0.324	mm/min	UL 746A
Hot-wire Ignition (HWI)	--	6.0 to 56	sec	UL 746A



Flammability	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Glow Wire Flammability Index	--	850 to 960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature	--	772 to 960	°C	IEC 60695-2-13
Oxygen Index				
--	--	28 to 34	%	ASTM D2863
--	--	24 to 29	%	ISO 4589-2

Optical	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit	Test Method
Gloss	--	83 to 91		ASTM D2457
Opacity	--	76 to 93	%	ASTM D589
Haze	--	0.500 to 4.93	%	ASTM D1003

**Disclaimer**

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ERC 213N C12360

This grade is not intended for medical, pharmaceutical, food and drinking water applications.

Injection	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit
Drying Temperature	--	79 to 81	°C
Drying Time	--	1.9 to 3.0	hr
Suggested Max Moisture	--	0.010 to 0.10	%
Suggested Max Re grind	--	10	%
Rear Temperature	--	183 to 213	°C
Middle Temperature	--	185 to 221	°C
Front Temperature	--	190 to 239	°C
Nozzle Temperature	--	196 to 220	°C
Processing (Melt) Temp	--	188 to 250	°C
Mold Temperature	--	33 to 52	°C
Injection Pressure	--	84.9 to 87.6	MPa
Holding Pressure	--	34.1 to 45.4	MPa
Back Pressure	--	0.0100 to 1.11	MPa
Screw Speed	--	44 to 82	rpm
Cushion	--	7.50 to 9.56	mm

**Injection Notes**

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Extrusion	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit
Drying Temperature	--	59 to 100	°C
Drying Time	--	1.5 to 3.1	hr
Suggested Max Re grind	--	8	%
Cylinder Zone 1 Temp.	--	140 to 235	°C
Cylinder Zone 2 Temp.	--	189 to 260	°C
Cylinder Zone 3 Temp.	--	184 to 280	°C
Cylinder Zone 4 Temp.	--	208 to 243	°C
Cylinder Zone 5 Temp.	--	202 to 242	°C



Extrusion	Hostacom ERC 213N C12360	Generic PP, Unspecified	Unit
Adapter Temperature	--	230 to 232	°C
Melt Temperature	--	199 to 305	°C
Die Temperature	--	200 to 252	°C

Extrusion Notes

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Notes

<sup>1</sup> These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

<sup>2</sup> Typical properties: these are not to be construed as specifications.

<sup>3</sup> Type 1A

