

Polypropylene

Grades used in sheet extrusion and thermoforming applications

PROPERTIES	MECHANICAL									THERMAL			OPTICAL		FEATURES	SPECIAL ADDITIVES
	Density	MFR 230°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation		Charpy notched impact strength			Ductile/Brittle Transition Temp.	Heat De- fect. Temp. HDT/B	Vicat Softening Temp.	Haze 1mm	Gloss at 60°		
	23°C				at Yield	at Break	23 °C	0 °C	-20 °C							
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527		ISO 179/1eA			ISO 6603-2	0.45 MPa ISO 75-2	ISO 306/A50	ASTM D1003	ISO 67530		
Units	g/cm ³	g/10 min	MPa	MPa	%		kJ/m ²			°C			%			
PP HOMOPOLYMER, MOPLEN																
Moplen HP400H	0.9	2.0	1400	34	11	>50	8	NA	NA	NA	80	150	45	107	Easy processability and good stiffness/impact balance at ambient temperatures	-
Moplen HP501H	0.9	2.1	1450	33	9	>50	5	NA	NA	NA	85	154	-	-	Good stiffness/impact balance at ambient temperatures	-
Moplen HP501L	0.9	6.0	1500	34	9	>50	3.5	NA	NA	NA	85	154	-	-	Good stiffness/impact balance at ambient temperatures	-
Moplen HP548L	0.9	5.5	1600	36	9	>50	3.5	NA	NA	NA	90	154	49	107	Good stiffness, transparency and excellent processability. Good wall thickness distribution of the thermoformed parts	NU, AS
Moplen HP640J	0.9	3.2	1600	37	9	>50	4	NA	NA	NA	90	154	30	113	Nucleated homopolymer used in extrusion and thermoforming applications. Good stiffness and transparency	NU
Moplen HP640J P9T	0.9	3.2	1950	37	9	>50		NA	NA	NA	90	154	30	103	Nucleated homopolymer used in extrusion and thermoforming applications. Excellent stiffness and transparency.	NU
Moplen HP740J	0.9	3.0	1850	40	7	20	7	NA	NA	NA	92	154	16	118	Very high stiffness, good transparency, gloss and dimensional stability	NU
Moplen HP740J P9T	0.9	3.0	1900	40	8	20	7	NA	NA	NA	99	153		123	Very high stiffness, good transparency and gloss	NU
PP HETEROPHASIC COPOLYMER, MOPLEN																
Moplen EP440G	0.9	1.3	1450	27	8	>50	40	9	7	-55	78	150	Opaque	65	High stiffness, very high impact strength at room and sub-zero temp, good dimensional stability and excellent creep resistance	NU
Moplen EP240H	0.9	2.0	1050	23	8	>50	80	12	8	-47	75	148	Opaque	73	Excellent low-temperature impact strength combined with a good processability	NU
Moplen EP300K	0.9	4.0	1200	27	7	>50	10.5	5.5	4	-	75	150	Opaque	-	High impact strength even at low temperatures, combined with good stiffness	-
Moplen EP340K	0.9	4.0	1100	20	5	>50	66	13	7	-57	85	140	Opaque	65	Outstanding low temperature impact performance and good stiffness	NU
Moplen EP400H	0.9	1.7	1300	27	8	>50	30	10	7	-55	78	153	Opaque	65	High stiffness, very high impact properties at room and sub-zero temperatures	-
Moplen EP490H	0.9	1.9	1100	23	23	>50	11	6	5				Opaque	53	Good stiffness, high impact properties, Outstanding creep	-
POLYPROPYLENE RANDOM COPOLYMER, MOPLEN																
Moplen RP241H	0.9	1.8	900	24	14	>50	45	4	NA	NA	68	127	9	133	High transparency and good impact strength	NU
Moplen RP242H	0.9	1.8	900	24	14	>50	45	4	NA	NA	68	127	9	133	High transparency, good impact strength and and low level of chemicals submitted to SML	NU
Moplen RP340H	0.9	1.8	1100	30	13	>50	28	2.5	NA	NA	80	130	11	134	SML	NU
Moplen RP341H	0.9	1.8	1100	30	13	>50	28	2.5	NA	NA	80	130	11	134	Excellent clarity, good rigidity and low level of chemicals submitted to SML	NU
Moplen RP390H	0.9	1.8	1050	29	13	50	26	3.5	NA	NA	80	130	15	128	Excellent clarity and good impact strength	NU

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative. Users should review the applicable Safety Data Sheet before handling the product.

Moplen, Cylrell and Adflex are trademarks owned and/or used by the LyondellBasell family of companies.

Moplen is registered in the U.S. Patent and Trademark Office.

4495/01/21

Polypropylene

Grades used in sheet extrusion and thermoforming applications

PROPERTIES	MECHANICAL									THERMAL			OPTICAL		FEATURES	SPECIAL ADDITIVES NU = NUCLEATED AS = ANTISTATIC
	Density	MFR 230°C, 2,16kg	Tensile Modulus	Tensile Stress at Yield	Tensile Elongation		Charpy notched impact strength			Ductile/Brittle Transition Temp.	Heat De- flect. Temp. HDT/B	Vicat Softening Temp.	Haze 1mm	Gloss at 60°		
	23°C				at Yield	at Break	23 °C	0 °C	-20 °C							
Test Method	ISO 1183	ISO 1133	ISO 527	ISO 527	ISO 527		ISO 179/1eA			ISO 6603-2	0.45 MPa ISO 75-2	ISO 306/A50	ASTM D1003	ISO 67530		
Units	g/cm ³	g/10 min	MPa	MPa	%		kJ/m ²			°C			%			
POLYPROPYLENE, CLYRELL																
<i>Clyrell</i> RC124H	0.9	2.2	750	25	15	510	30	-	NA	NA	69	122	15	-	Highly modified polyolefinic resin; enhanced optical properties and good impact strength at refrigerator temperatures	NU
SOFTNESS AND IMPACT MODIFIERS, ADFLEX																
<i>Adflex</i> X100G	0.88	8.0	80	6	>40	>600	NB	NB	105	<-50	40	56	-	-	<i>Adflex</i> X100G features a high softness, low modulus, good processability and excellent impact performance at low temperatures. <i>Adflex</i> X100G can be used as softener and /or low temperature impact modifier for polypropylene.	-
<i>Adflex</i> X500F	0.89	7.5	550	14	20	700	65	80	45	<-50	58	94	23	-	<i>Adflex</i> X500F features a low modulus, good processability, high gloss and good clarity. It can be blended with other transparent polyolefinic resins to improve the low temperature impact resistance maintaining the transparency.	-

Before using a product sold by a company of the LyondellBasell family of companies, users should make their own independent determination that the product is suitable for the intended use and can be used safely and legally. SELLER MAKES NO WARRANTY, EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY) OTHER THAN AS SEPARATELY AGREED TO BY THE PARTIES IN A CONTRACT. LyondellBasell prohibits or restricts the use of its products in certain applications. For further information on restrictions or prohibitions of use, please contact a LyondellBasell representative. Users should review the applicable Safety Data Sheet before handling the product.

Moplen, Clyrell and Adflex are trademarks owned and/or used by the LyondellBasell family of companies.

Moplen is registered in the U.S. Patent and Trademark Office.

4495/01/21