Product Datasheet

Union Petrochemical Public Company Limited



ExxonMobilTM AP3AW Polypropylene Impact Copolymer

Product Description

An UV stabilized medium impact copolymer resin designed for automotive battery cases.

Asia Pacific High Stiffness Low Warpage Automotive Application Natural Color Pellets Injection Molding 10 0.900 Typical Valu 3930 3790 5.5 5.7	• Me ons • Au ue (English) g/10 min g/cm³ ue (English) psi psi	edium Flow edium Impact Re tomotive Under	Typical 10 0.900	Value (SI) g/10 min g/cm³ Value (SI)	Test Based On ASTM D1238 ExxonMobil Method Test Based On ASTM D638
Low Warpage Automotive Application Natural Color Pellets Injection Molding D7/01/2017 Typical Valu 10 0.900 Typical Valu 3930 3790 5.5	• Me ons • Au ue (English) g/10 min g/cm³ ue (English) psi psi	edium Impact R	Typical 10 0.900 Typical 27.1	Value (SI) g/10 min g/cm³ Value (SI)	Test Based On ASTM D1238 ExxonMobil Method Test Based On ASTM D638
Natural Color Pellets njection Molding 07/01/2017 Typical Valu 0.900 Typical Valu 3930 3790 5.5	ue (English) g/10 min g/cm³ ue (English) psi psi	tomotive Under	Typical 10 0.900 Typical 27.1	Value (SI) g/10 min g/cm³ Value (SI) MPa	Test Based On ASTM D1238 ExxonMobil Method Test Based On ASTM D638
Pellets njection Molding 07/01/2017 Typical Valu 0.900 Typical Valu 3930 3790 5.5	g/10 min g/cm³ ue (English) psi psi		10 0.900 Typical	g/10 min g/cm³ Value (SI)	ASTM D1238 ExxonMobil Method Test Based On ASTM D638
njection Molding 07/01/2017 Typical Valu 0.900 Typical Valu 3930 3790 5.5	g/10 min g/cm³ ue (English) psi psi		10 0.900 Typical	g/10 min g/cm³ Value (SI)	ASTM D1238 ExxonMobil Method Test Based On ASTM D638
77/01/2017 Typical Valu 0.900 Typical Valu 3930 3790 5.5	g/10 min g/cm³ ue (English) psi psi		10 0.900 Typical	g/10 min g/cm³ Value (SI)	ASTM D1238 ExxonMobil Method Test Based On ASTM D638
77/01/2017 Typical Valu 0.900 Typical Valu 3930 3790 5.5	g/10 min g/cm³ ue (English) psi psi		10 0.900 Typical	g/10 min g/cm³ Value (SI)	ASTM D1238 ExxonMobil Method Test Based On ASTM D638
10 0.900 Typical Valu 3930 3790 5.5	g/10 min g/cm³ ue (English) psi psi		10 0.900 Typical	g/10 min g/cm³ Value (SI)	ASTM D1238 ExxonMobil Method Test Based On ASTM D638
0.900 Typical Valu 3930 3790 5.5	g/cm³ ue (English) psi psi		0.900 Typical 27.1	g/cm³ Value (SI) MPa	ExxonMobil Method Test Based On ASTM D638
Typical Valu 3930 3790 5.5	ue (English) psi psi		Typical 27.1	Value (SI) MPa	Test Based On ASTM D638
3930 3790 5.5	psi psi		27.1	MPa	ASTM D638
3930 3790 5.5	psi psi		27.1	MPa	ASTM D638
3790 5.5	psi				
3790 5.5	psi				
5.5	•		_0.1	MPa	ISO 527-2/50
5.7			5.5		ASTM D638
5.1	0/_		5.7	0/_	ISO 527-2/50
	/0		5.7	/0	130 321-2/30
204000	psi		1410	MPa	ASTM D790A
231000	psi				ASTM D790B
188000	psi		1300	MPa	ISO 178
Typical Valu	ıe (English)		Typical	Value (SI)	Test Based On
rypiodi vaic	ac (English)		Турюш	value (OI)	ASTM D256A
0.91	ft-lb/in		49	J/m	AGTIVI DZGGA
					ISO 180/1A
2.5	ft-lb/in ²		5.3	kJ/m ²	
6.6	ft-lb/in ²		14	kJ/m ²	
2.2	6. H. P. 2		4.0	1-172	ISO 179/1eA
-					
··					
3.0	14 10/111		12	130/111	ASTM D5420
156	in-lb		17.6	J	7.0 TM 50-120
Typical Val-	ıe (English)		Typical	Value (SI)	Test Based On
• • •					
					ISO 75-2/ A 9 °C
	°F		91.7	°C	ISO 75-2/B#9 °C
L) 210	°F		99.0	°C	ASTM D6489 °C
239	°F		115	°C	ASTM D6489 °C
Typical Valu	ue (English)		Typical	Value (SI)	Test Based On
				, ,	ASTM D785
	188000 Typical Valu 0.91 2.2 2.5 2.7 6.6 2.0 2.1 3.1 5.6 156 Typical Valu 132 197 -) 210 239	188000 psi Typical Value (English) 0.91 ft-lb/in 2.2 ft-lb/in 2.5 ft-lb/in² 2.7 ft-lb/in² 6.6 ft-lb/in² 2.1 ft-lb/in² 2.1 ft-lb/in² 3.1 ft-lb/in² 5.6 ft-lb/in² 156 in-lb Typical Value (English) 132 °F 197 °F 210 °F 239 °F Typical Value (English)	188000 psi Typical Value (English) 0.91 ft-lb/in 2.2 ft-lb/in 2.5 ft-lb/in² 2.7 ft-lb/in² 6.6 ft-lb/in² 2.0 ft-lb/in² 2.1 ft-lb/in² 3.1 ft-lb/in² 5.6 ft-lb/in² 156 in-lb Typical Value (English) 132 °F 197 °F 210 °F 239 °F Typical Value (English)	188000 psi 1300 Typical Value (English) Typical 0.91 ft-lb/in 49 2.2 ft-lb/in 120 2.5 ft-lb/in² 5.3 2.7 ft-lb/in² 5.6 6.6 ft-lb/in² 4.2 2.0 ft-lb/in² 4.4 3.1 ft-lb/in² 6.5 5.6 ft-lb/in² 12 156 in-lb 17.6 Typical Value (English) Typical 132 °F 55.8 197 °F 91.7 -) 210 °F 99.0 239 °F 115 Typical Value (English) Typical Typical Value (English) Typical	188000 psi 1300 MPa Typical Value (English) Typical Value (SI) 0.91 ft-lb/in 49 J/m 2.2 ft-lb/in 120 J/m 2.5 ft-lb/in² 5.3 kJ/m² 2.7 ft-lb/in² 5.6 kJ/m² 6.6 ft-lb/in² 4.2 kJ/m² 2.0 ft-lb/in² 4.4 kJ/m² 2.1 ft-lb/in² 6.5 kJ/m² 3.1 ft-lb/in² 6.5 kJ/m² 5.6 ft-lb/in² 12 kJ/m² 156 in-lb 17.6 J Typical Value (English) Typical Value (SI) 132 °F 55.8 °C 197 °F 91.7 °C 20 °F 99.0 °C 239 °F 115 °C Typical Value (English) Typical Value (English) Typical Value (SI)

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

For additional technical, sales and order assistance please contact our sales representative

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