

DuPure® QW 76 AV

Polypropylene Random Copolymer

Ducor Petrochemicals BV

Message:

DuPure QW 76 AV is a controlled rheology modified polypropylene random copolymer (produced with a phthalate-free catalyst), suitable for injection moulding applications. The product is nucleated and contains an anti-electrostatic agent. DuPure QW 76 AV features a good balance of stiffness and impact strength, and very high melt flow.

Applications

DuPure QW 76 AV is suitable for: thin-walled injection moulding, compounding.

General Information			
Additive	Nucleating agent		
Features	Nucleated		
	Rigid, good		
	Impact resistance, good		
	Good melt strength		
	Compliance of Food Exposure		
	Random copolymer		
Agency Ratings	EC 1907/2006 (REACH)		
	EC 1935/2004		
	EN 71-3		
	EU 2000/53/EC		
	EU 2002/96/EC (WEEE)		
	EU 2005/84/EC		
	EU 94/62/EC		
	FDA 21 CFR 176.170(c), Table 1		
	FDA 21 CFR 176.170(c), table 2		
	FDA 21 CFR 177.1520(a) 3 (i)		
	FDA 21 CFR 177.1520(b)		
	FDA 21 CFR 177.1520(c) 3.1a		
	Europe 10/1/2011 12:00:00 AM		
RoHS Compliance	RoHS compliance		
Processing Method	Composite		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	75	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method

Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	12	%	ISO 527-2/50
Fracture	> 40	%	ISO 527-2/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
0°C	1.5	kJ/m ²	ISO 179/1eA
23°C	3.5	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
0°C	60	kJ/m ²	ISO 179/1eU
23°C	140	kJ/m ²	ISO 179/1eU
Notched Izod Impact			ISO 180/1A
0°C	1.6	kJ/m ²	ISO 180/1A
23°C	3.8	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	85.0	°C	ISO 75-2/B
1.8 MPa, not annealed	55.0	°C	ISO 75-2/A
Vicat Softening Temperature			
--	145	°C	ISO 306/A
--	85.0	°C	ISO 306/B
Melting Temperature (DSC)	154	°C	ISO 3146
Optical	Nominal Value	Unit	Test Method
Haze (1000 μm)	50	%	ASTM D1003

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