

Retpol® PDR 7379 UV1

Polypropylene

PolyPacific Pty. Ltd.

Message:

EPALEX PDR 7379 UV1 is a thermoplastic rubber modified polypropylene compound. It is a medium flow injection moulding grade developed for high impact strength at sub-zero temperatures whilst maintaining good rigidity at high ambient temperatures. It has been stabilized to provide a low to moderate level of protection from UV radiation.

General Information			
Additive	Rubber		
	UV Stabilizer		
Features	Good Stiffness		
	High Impact Resistance		
	Low Temperature Impact Resistance		
	Medium Flow		
Uses	Tool/Tote Box		
Forms	Granules		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.898	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	6.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.00 mm)	0.80 to 1.2	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale, 3.00 mm)	53		ASTM D785
Durometer Hardness			ASTM D2240
Shore D, 3.00 mm	65		
Shore D, 15 sec, 3.00 mm	55		
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (3.00 mm)	19.0	MPa	ASTM D638
Tensile Elongation ² (Break, 3.00 mm)	500	%	ASTM D638
Flexural Modulus (3.00 mm)	800	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.00 mm	230	J/m	
0°C, 3.00 mm	600	J/m	
23°C, 3.00 mm	680	J/m	
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load (0.45 MPa, Unannealed, 3.00 mm)	75.0	°C	ASTM D648
CLTE - Flow (-30 to 30°C, 3.00 mm)	1.0E-4	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	80.0	°C	
Drying Time	2.0	hr	
Suggested Max Regrind	10	%	
Processing (Melt) Temp	200 to 260	°C	
Mold Temperature	20.0 to 60.0	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	50 mm/min		
2.	50 mm/min		

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